

=> d his

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L1 STRUCTURE UPLOADED

L2 10 S L1

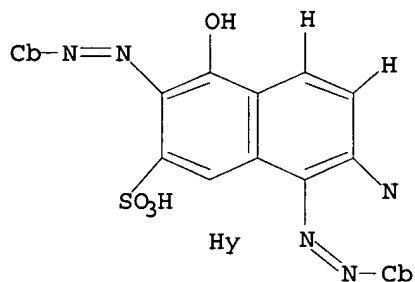
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L4 14 S L3

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Structure attributes must be viewed using STN Express query preparation.

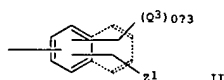
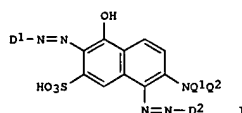
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:1042344 CAPLUS
 DN 143:348671
 TI Fibre-reactive dyes, their preparation and their use
 IN Tzikas, Athanasios; Roentgen, Georg; Christnacher, Hubert Jean Luc
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CMT 1

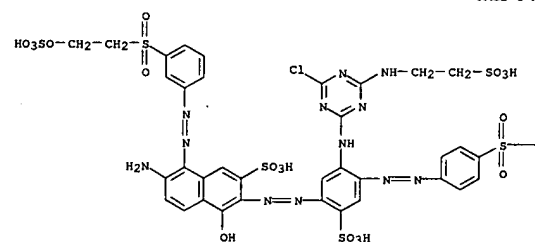
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005090484	A1	20050929	WO 2005-EP51044	20050309
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI EP 2004-101144	A	20040319		
GI				



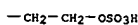
AB The invention relates to reactive dyes of formula (I), wherein Q1 and Q2 are each independently of the other hydrogen or unsubstituted or substituted C1-C4 alkyl, D1 is the radical of a diazo component, which is

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (sulfoxy)ethyl)sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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RN 865359-66-6 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[(2-sulfoethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-4-[[4-[[2-(sulfoxy)ethyl)sulfonyl]phenyl]azo]phenyl]azo]-4-hydroxy-8-[[4-[[2-(sulfoxy)ethyl)sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

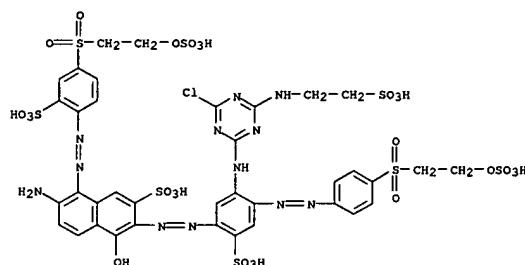
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 itself a mono- or dis-azo dye or contains such a dye, D2 has the same definition as D1 or is a radical of formula (II), wherein (Q3)0-3 denotes from 0 to 3 identical or different substituents selected from the group halogen, C1-C4 alkyl, C1-C4 alkoxy, carboxy and sulfo and Z1 is a radical of formula -SO2-Y (3a), -NH-CO-(CH2)m-SO2-Y (3b), -CONH-(CH2)n-SO2-Y (3c), -NH-CO-CH(Hal)-CH2-Hal (3d) or -NH-CO-C(Hal):CH2 (3e), Y is vinyl or a -CH2-CH2-U radical and U is a group that is removable under alk. conditions, m and n are each independently of the other the no. 2, 3 or 4,

and Hal is halogen. The dye mixts. are suitable for dyeing cellulosic or amide-group-contg. fiber materials (e.g., cotton fabrics) with good fastness properties.

IT 865359-93-6P 865359-65-5P 865359-66-6P
 865359-67-7P 865359-68-8P 865359-69-9P
 865359-70-2P 865359-71-3P 865359-72-4P
 865359-73-5P 865359-74-6P 865359-75-7P
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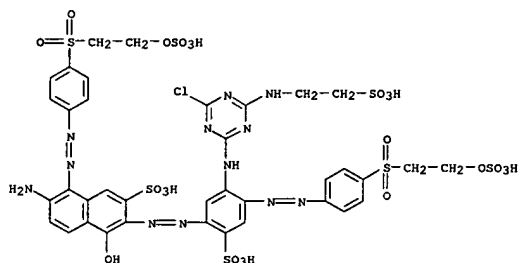
RI: IMF (Industrial manufacture); TEN (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (bluish violet dye; production of fiber-reactive diazo dyes for dyeing cellulosic or amide-containing fiber materials)

RN 865358-93-6 CAPLUS
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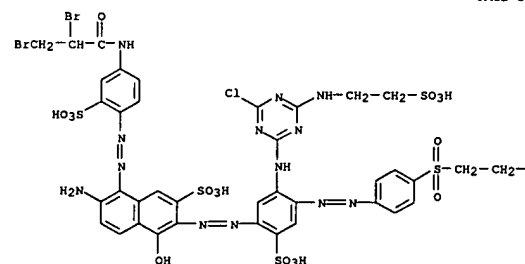
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 865359-67-7 CAPLUS
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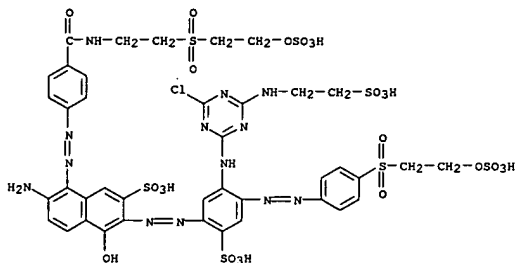


L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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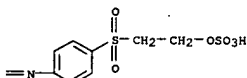
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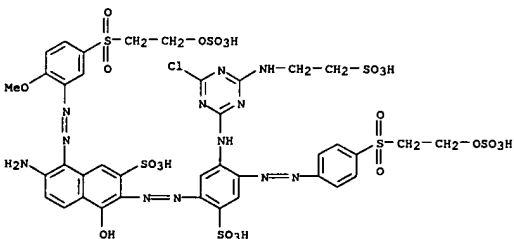
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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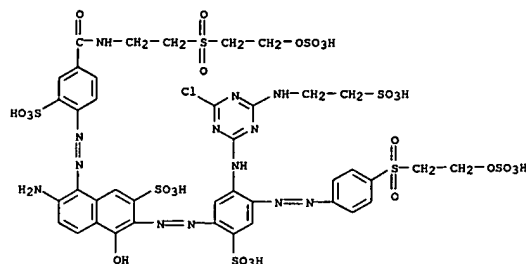
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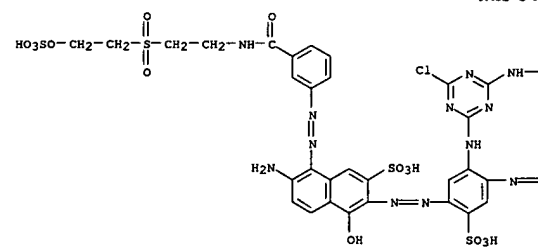
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

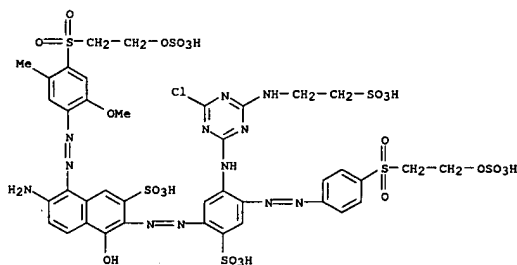


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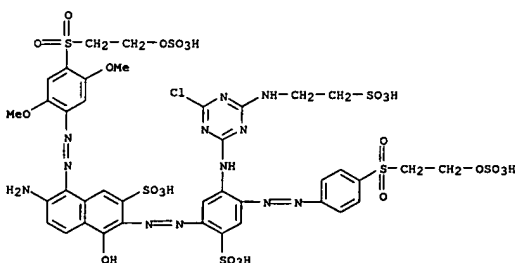
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

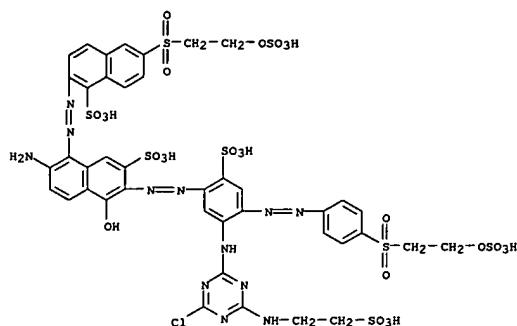


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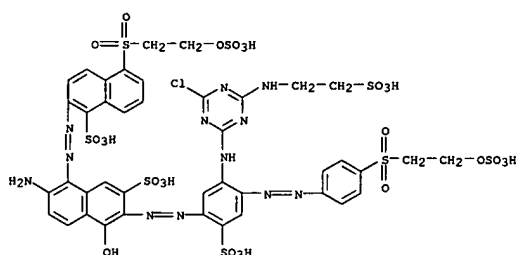


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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



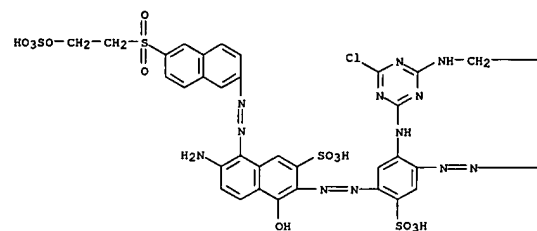
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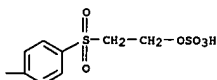
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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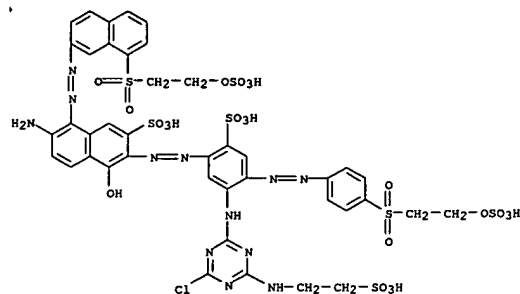


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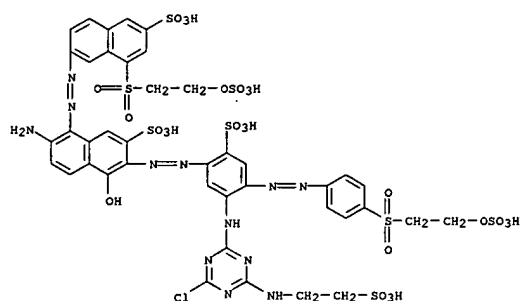
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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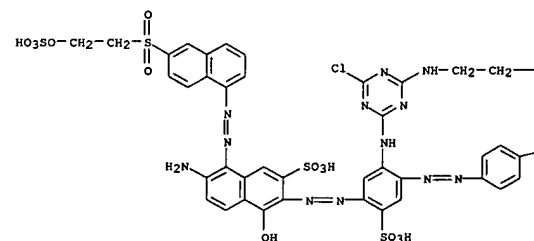


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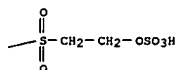


L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

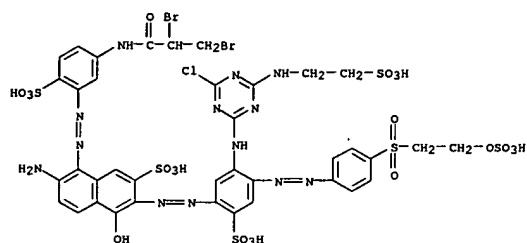


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—SO₃H

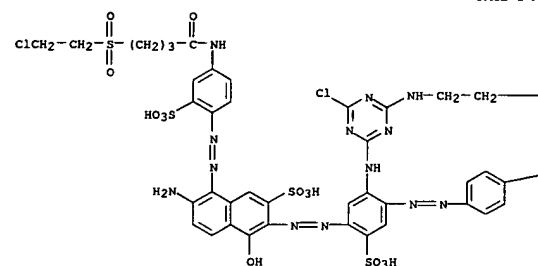
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 865359-81-5 CAPLUS
 CN 2-Naphthalenesulfonic acid,
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-OSO₃H

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RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (production of fiber-reactive diazo dyes for dyeing cellulosic or amido-containing fiber materials)

RN 865358-94-7 CAPLUS

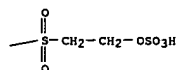
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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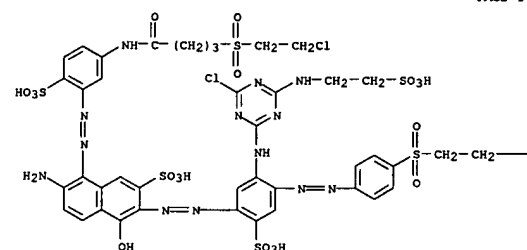
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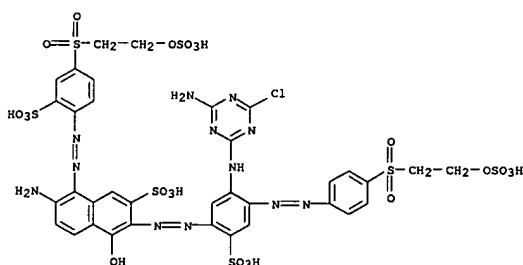
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

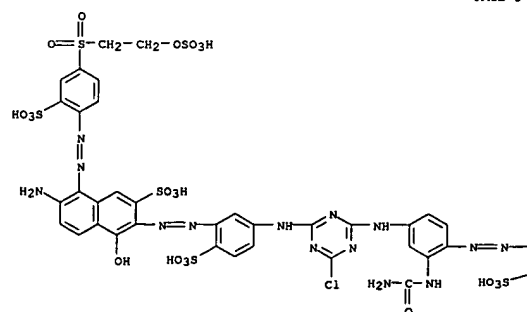


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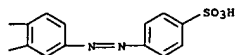
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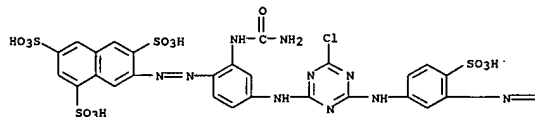
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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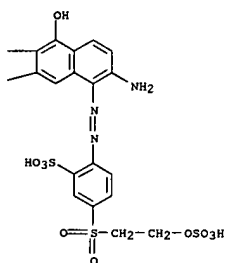
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 (CA INDEX NAME)

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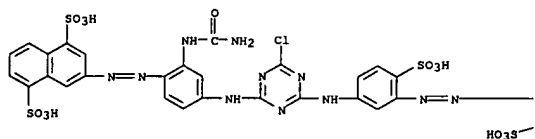
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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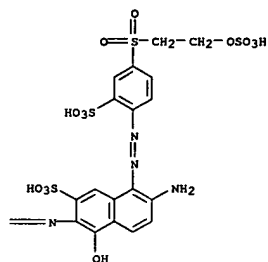
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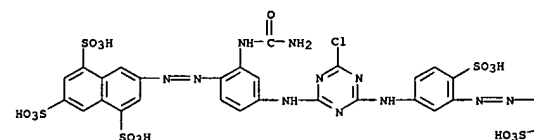
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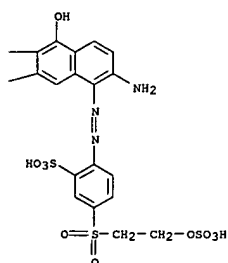
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 (CA INDEX NAME)

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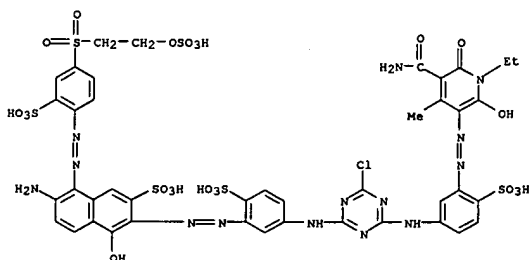


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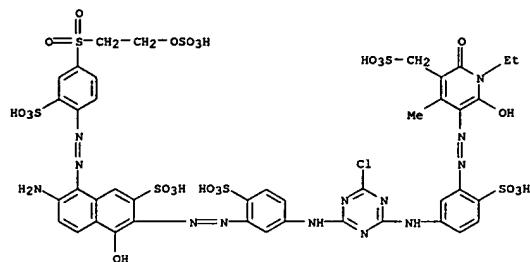
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 (CA INDEX NAME)



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 (CA INDEX NAME)

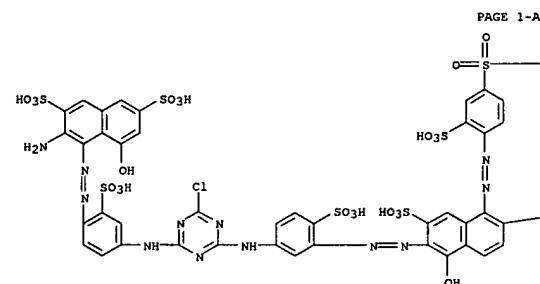
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxo- (9CI) (CA INDEX NAME)



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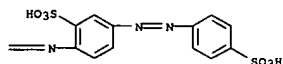
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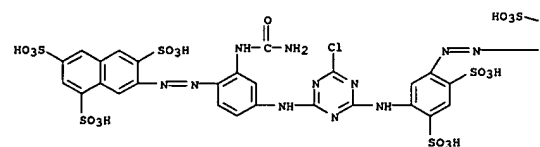
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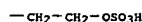
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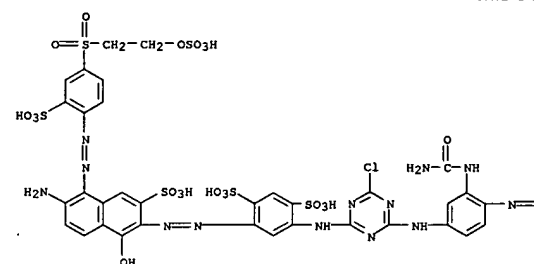
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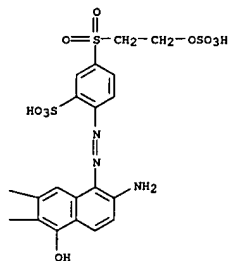
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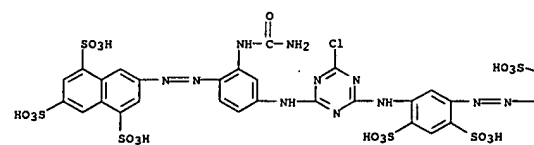
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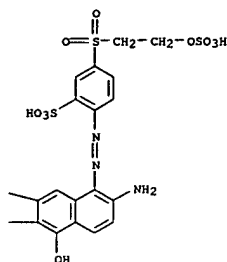
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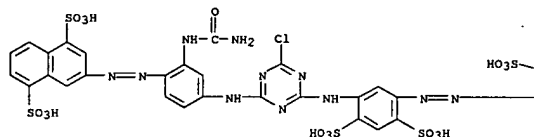
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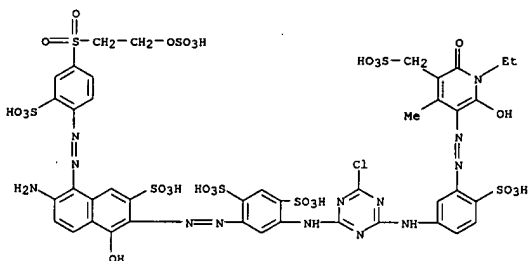
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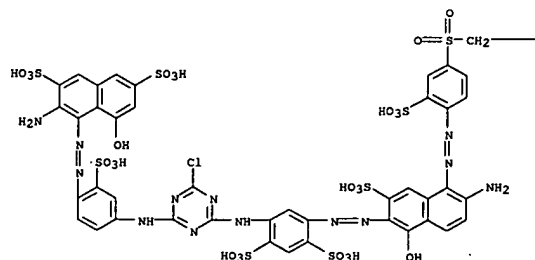
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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 INDEX NAME)



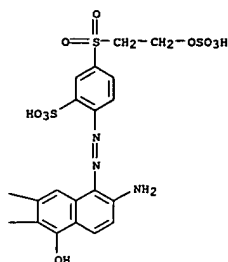
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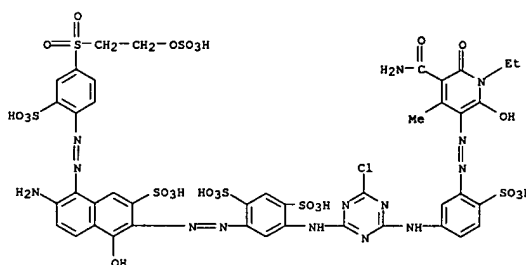


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 (CA INDEX NAME)



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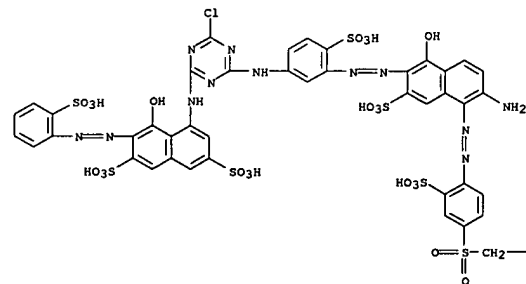
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-CH₂-OSO₃H

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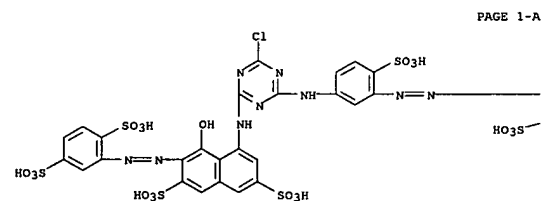


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—CH₂—OSO₃H

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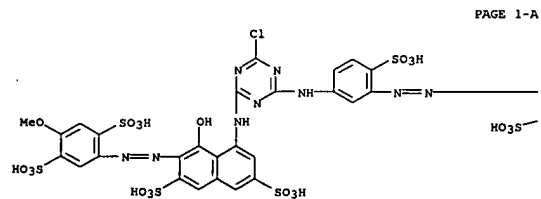


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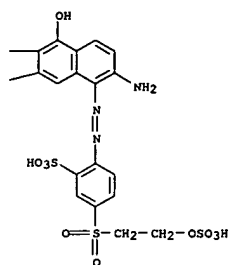
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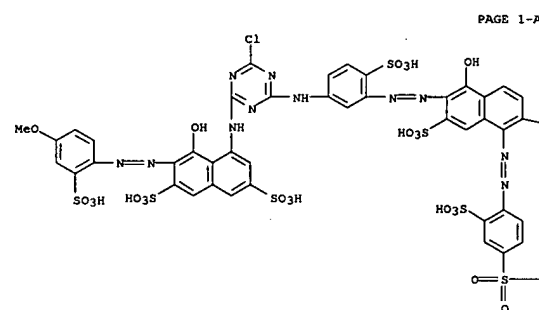


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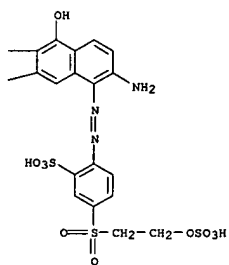


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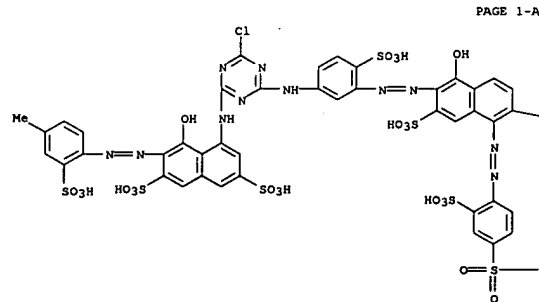


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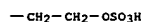


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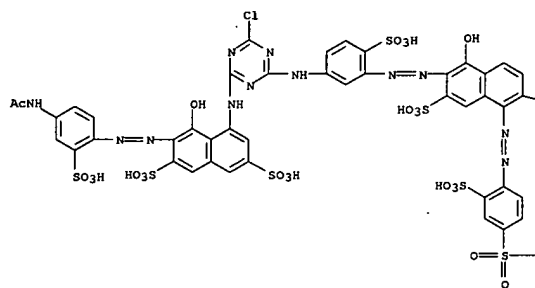
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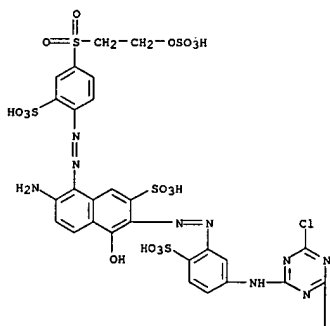
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 (CA INDEX NAME)

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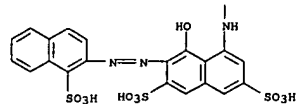


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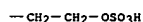
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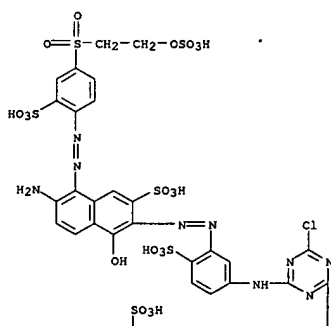
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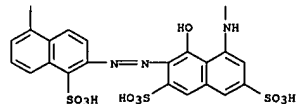
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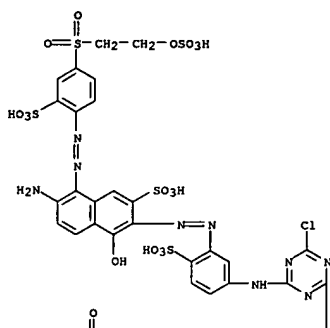


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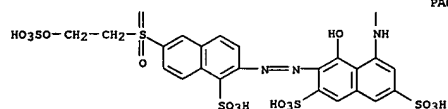
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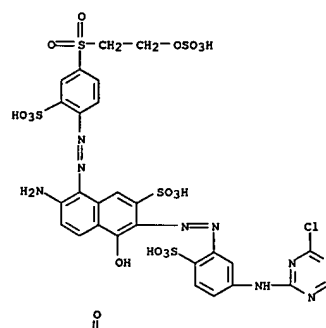
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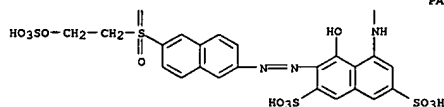
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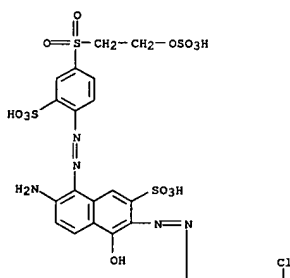
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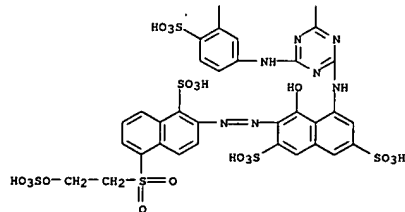
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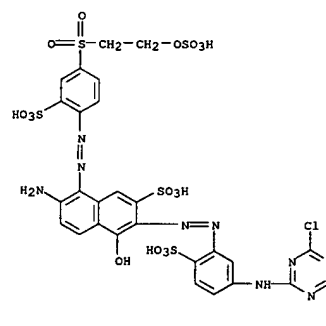
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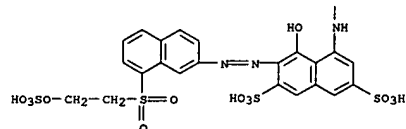
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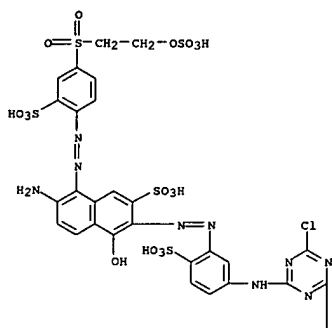


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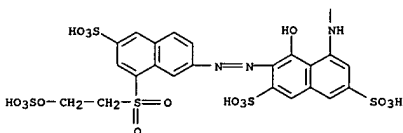
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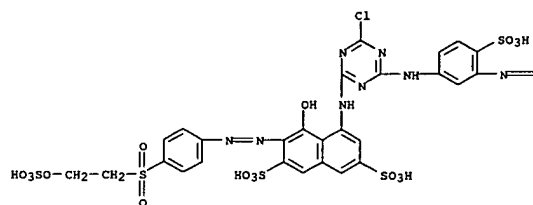
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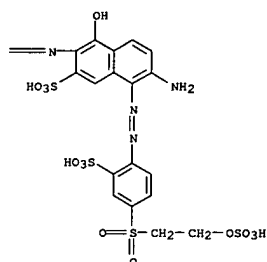
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L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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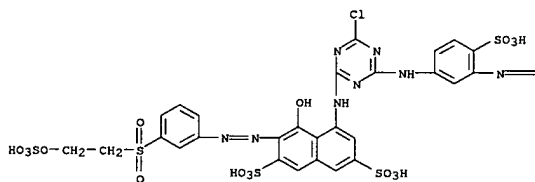
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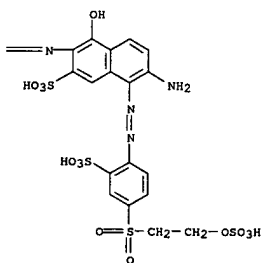
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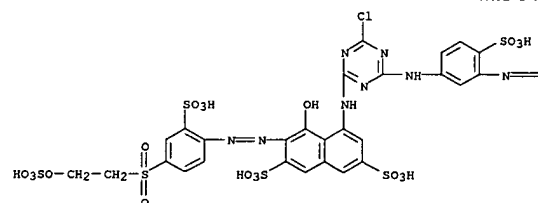
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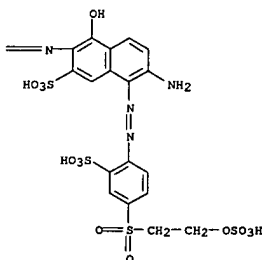
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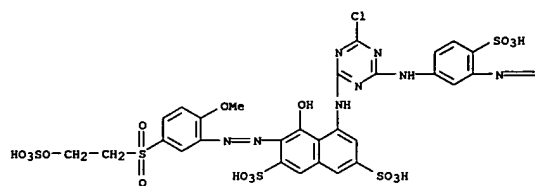
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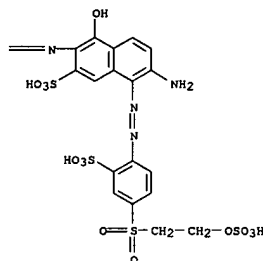
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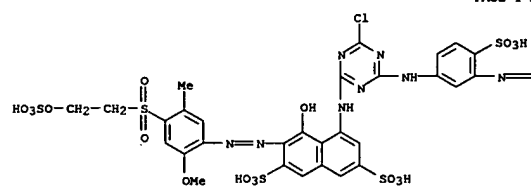
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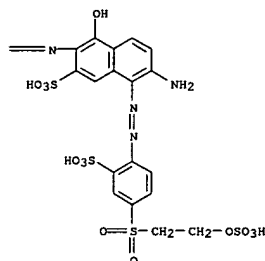
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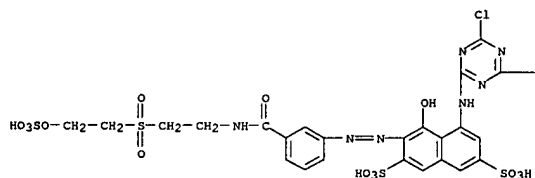
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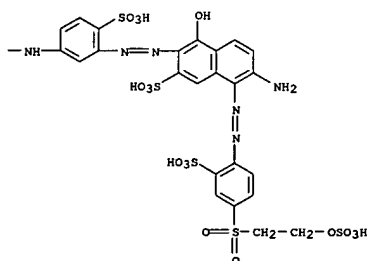
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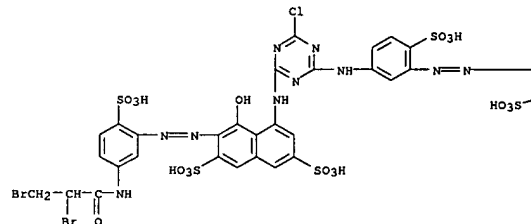
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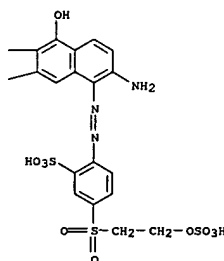
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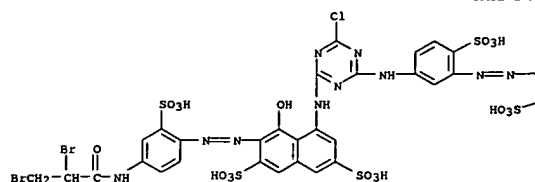
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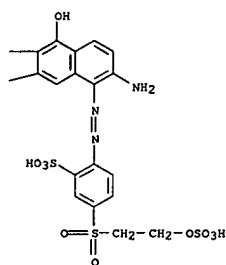
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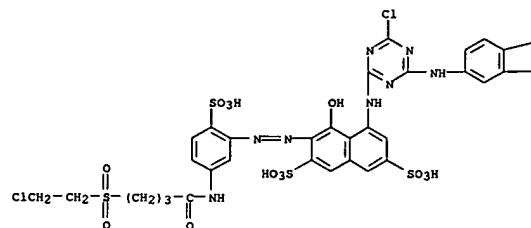
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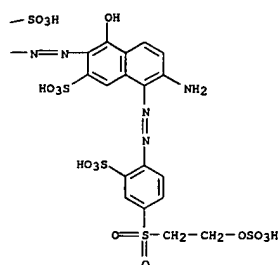
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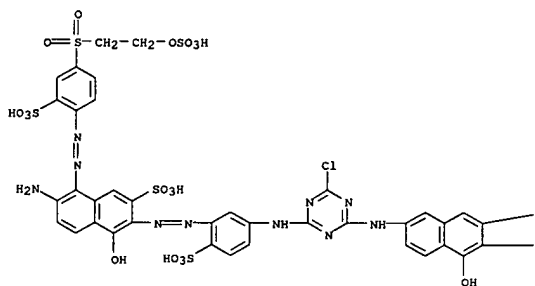
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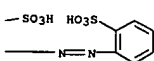
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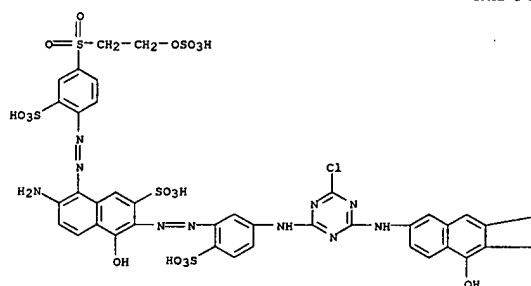
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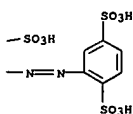
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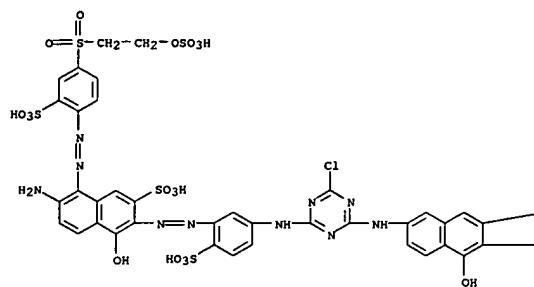
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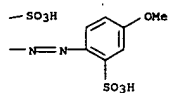
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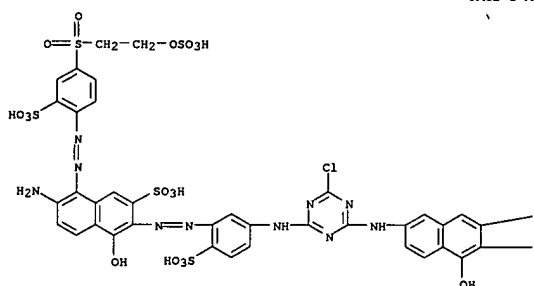
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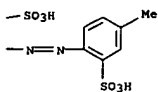
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(sulfooxy)ethyl)sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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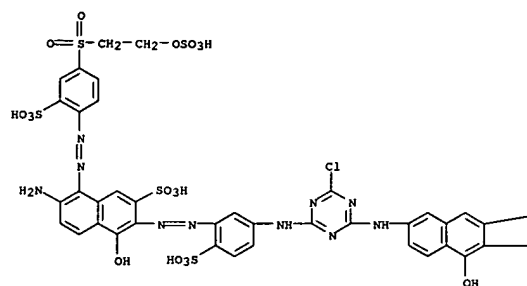
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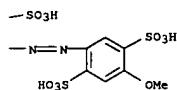
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naphthalenvillazo-5-methoxy- (9CI) (CA INDEX NAME)

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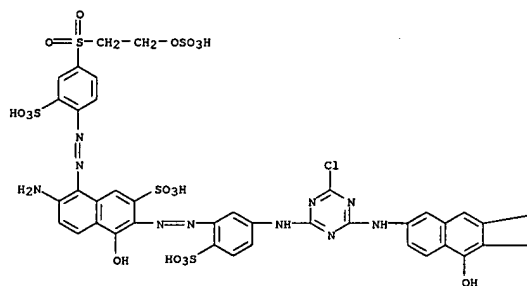
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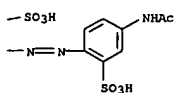
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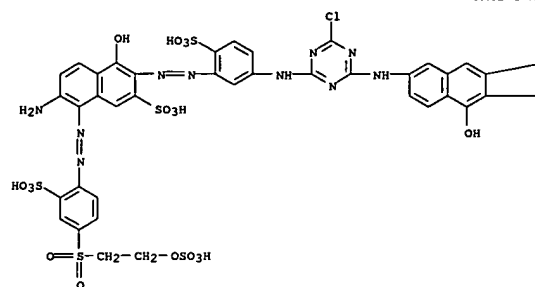


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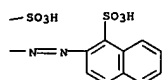


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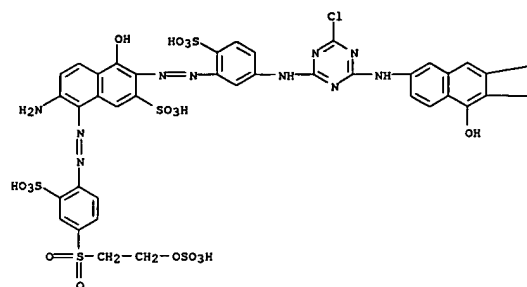


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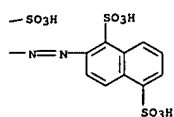


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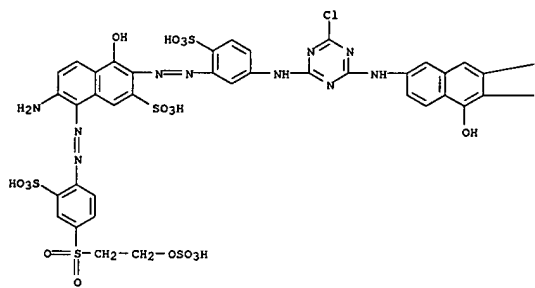


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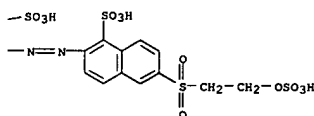


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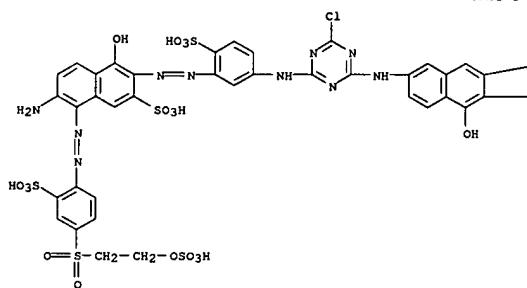


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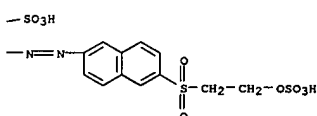


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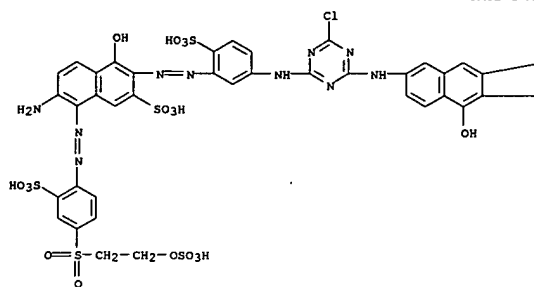
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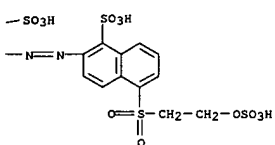
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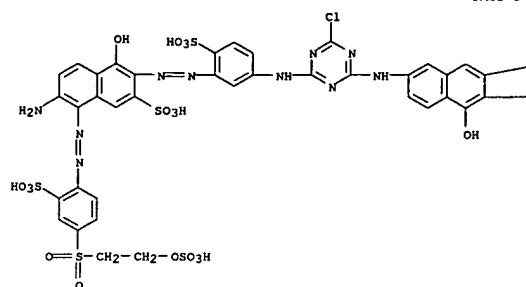
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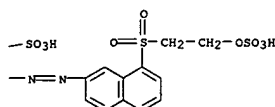
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 NAME)

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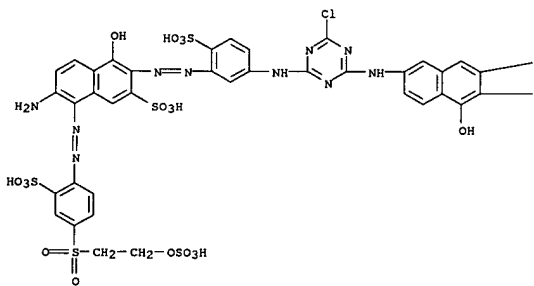
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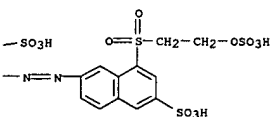
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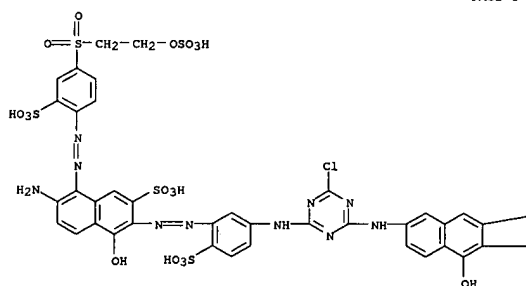
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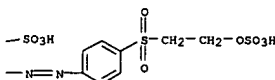
RN 865359-56-4 CAPLUS
 CN 2-Naphthalenesulfonic acid,
 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-7-sulfo-
 6-[[4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]amino]-1,3,5-
 triazin-2-yl]amino]-2-sulphophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-
 (sulfoxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



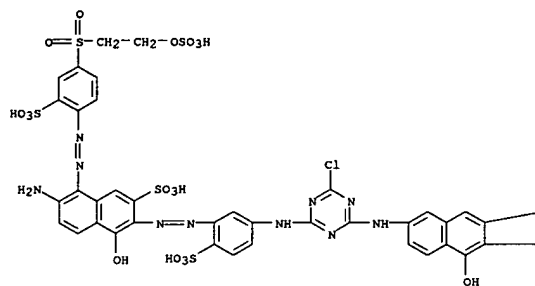
PAGE 1-B



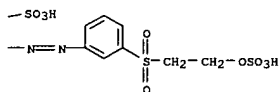
RN 865359-57-5 CAPLUS
 CN 2-Naphthalenesulfonic acid,
 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-7-sulfo-
 6-[[3-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenyl]amino]-1,3,5-
 triazin-2-yl]amino]-2-sulphophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-
 (sulfoxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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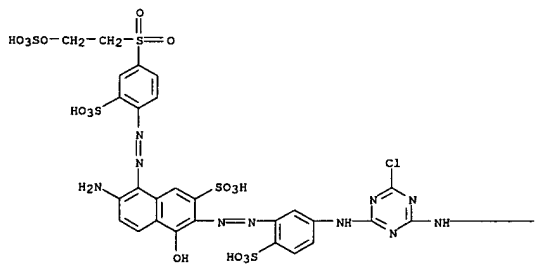
PAGE 1-B



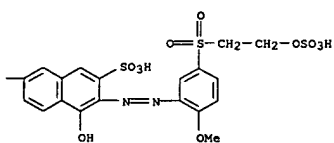
RN 865359-58-6 CAPLUS
 CN 2-Naphthalenesulfonic acid,
 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-7-sulfo-
 6-[[2-sulfo-4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]-2-
 naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-phenyl]azo]-4-hydroxy-

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 methoxy-5-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]-7-sulfo-2-
 naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-phenyl]azo]-4-hydroxy-
 8-[[2-sulfo-4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX
 NAME)

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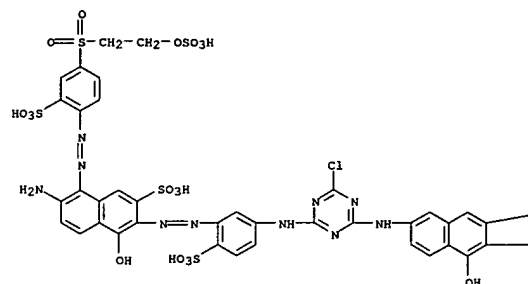
PAGE 1-B



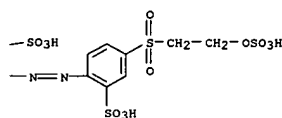
RN 865359-60-0 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-6-[[2-
 methoxy-5-methyl-4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]-7-sulfo-2-
 naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-phenyl]azo]-4-hydroxy-

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 8-[[2-sulfo-4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX
 NAME)

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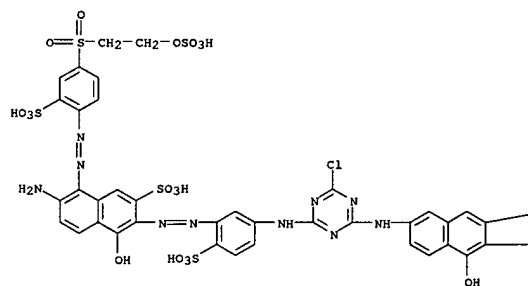
PAGE 1-B



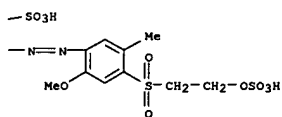
RN 865359-59-7 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[5-hydroxy-6-[[2-

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 8-[[2-sulfo-4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX
 NAME)

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PAGE 1-B

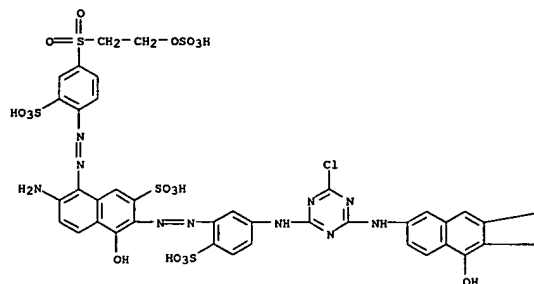


RN 865359-61-1 CAPLUS
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 6-[[3-[[[2-[[2-(sulfoxy)ethyl]sulfonyl]ethyl]amino]carbonyl]phenyl]azo]-2-

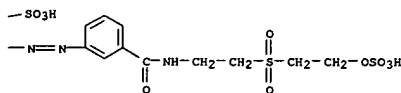
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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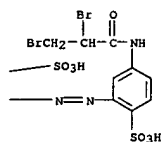


PAGE 1-B



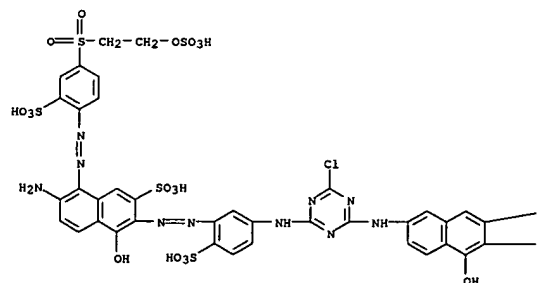
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B



RN 865359-63-3 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[6-[[5-[[2,3-dibromo-1-oxopropyl]amino]-2-sulfophenyl]azo]-5-hydroxy-7-sulfo-2-sulfo-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

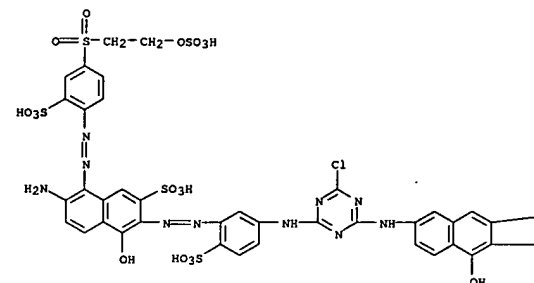


L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 865359-62-2 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[6-[[5-[[2,3-dibromo-1-oxopropyl]amino]-2-sulfophenyl]azo]-5-hydroxy-7-sulfo-2-

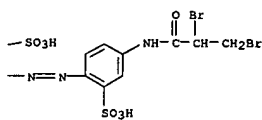
naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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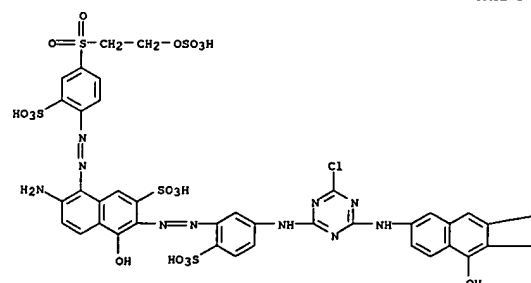
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B

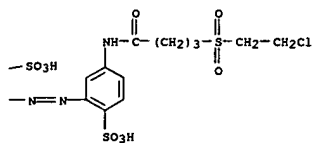


RN 865359-64-4 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[4-chloro-6-[[6-[[5-[[4-(2-chloroethyl)sulfonyl]-1-oxobutyl]amino]-2-sulfophenyl]azo]-5-hydroxy-7-sulfo-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

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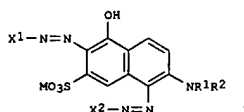
L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PAGE 1-B



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

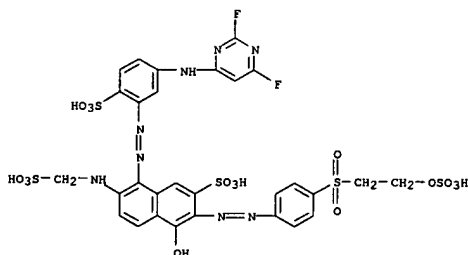
L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN **APPLICANT**
AN 2003:855992 CAPLUS
DN 139:351757
TI Reactive disazo dyes, their production and their use
IN Eichhorn, Joachim
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003089521	A1	20031030	WO 2003-EP3889	20030415
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10217477	A1	20031106	DE 2002-10217477	20020419
CA 2484430	AA	20031030	CA 2003-2484430	20030415
AU 2003232470	A1	20031103	AU 2003-232470	20030415
EP 1499681	A1	20050126	EP 2003-746826	20030415
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003009366	A	20050222	BR 2003-9366	20030415
US 2005150063	A1	20050714	US 2003-511534	20030415
JP 2005523366	T2	20050804	JP 2003-586236	20030415
PRAI DE 2002-10217477	A	20020419		
WO 2003-EP3889	W	20030415		
OS MARPAT 139:351757				
GI				



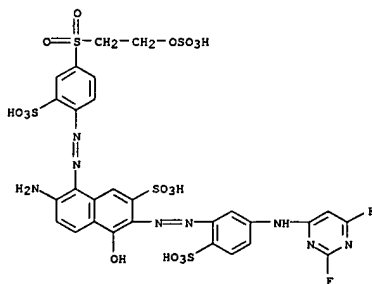
AB The invention relates to azo dyes (I; M = H, alkali metal, 1/2 alkaline earth metal; R, R1 = H, Cl-4-alkyl, sulfomethyl; X1, X2 = optionally substituted aryl), their production, and their use for dyeing or printing fibrous materials containing hydroxy and/or carbonamide groups. I confer scarlet to

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
reddish brown shades which show good color strength and fastness characteristics. In an example, 2,4,6-trifluoropyrimidine was condensed (1:1) with 2,4-diaminobenzene sulfonic acid to provide a diazo component which was coupled with 4-hydroxy-7-(sulfomethylamino)-2-naphthalenesulfonic acid to give a reddish orange monoazo dye. This dye was coupled with diazotized 4-(2-sulfatoethylsulfonfyl)aniline to provide
a disazo reactive dye (λ_{max} 496 nm), scarlet red on cotton.
IT 617722-66-4P 617722-67-5P 617722-68-6P
RI: INF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
RN 617722-66-4 CAPLUS
CN 2-Naphthalenesulfonic acid, 8-[[5-[(2,6-difluoro-4-pyrimidinyl)amino]-2-sulfohenyl]azo]-4-hydroxy-7-[(sulfomethyl)amino]-3-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)



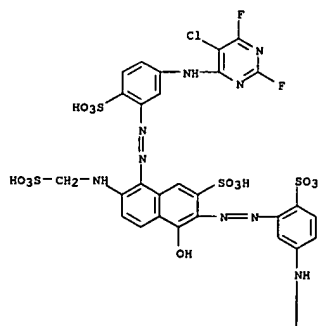
RN 617722-67-5 CAPLUS
CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[(2,6-difluoro-4-pyrimidinyl)amino]-2-sulfohenyl]azo]-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 617722-68-6 CAPLUS
CN 2-Naphthalenesulfonic acid, 3,8-bis[[5-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-sulfohenyl]azo]-4-hydroxy-7-[(sulfomethyl)amino]- (9CI) (CA INDEX NAME)

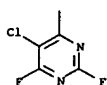
PAGE 1-A



L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:823449 CAPLUS

DN 139:324745

TI Water-soluble azo dye involving triazine structure for dyeing or printing of paper

IN Taniguchi, Koichi

PA Nippon Chemical Works Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

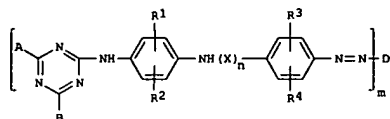
CODEN: JKOKAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003301120	A2	20031021	JP 2002-109397	20020411
PRAI JP 2002-109397		20020411		
OS MARPAT 139:324745				
GI				



AB The dye is that represented as I [D = coupler residue; X = CO, SO2, n = 0,

1; R1-R4 = H, Cl-4 alkyl, alkoxy, sulfonic acid, carboxy; A, B = halogen, OH, (substituted) amino, heterocycle; m = 1, 2]. The dye is used for printing or dyeing of paper without environment pollution by wastewater. Thus, reaction of cyanuric chloride, diethylaminopropylamine, morpholine, and 4,4'-diaminobenzanilide gave a diazo component, which was coupled

with 3-methyl-5-pyrazolone to give the dye. A sheet of paper was dyed with the dye to give a light- and moisture-resistant yellow sheet with high color d. associated with release of colorless wastewater.

IT 613685-47-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(water-soluble azo dye involving triazine structure for dyeing of

paper without environment pollution by wastewater)

RN 613685-47-5 CAPLUS

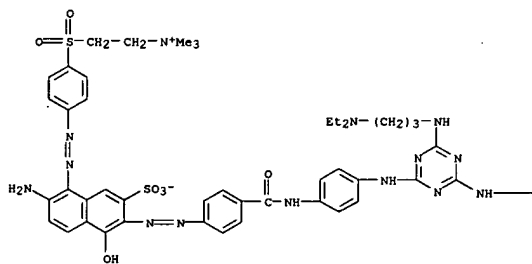
CN Ethanaminium, 2-[[4-[[2-amino-6-[[4-[[[4-[[4,6-bis[[3-

(diethylamino)propyl]amino]-1,3,5-triazin-2-yl]amino]phenyl]amino]carbonyl
[phenyl]azo]-5-hydroxy-7-sulfo-1-naphthalenyl]azo]phenyl]sulfonyl]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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-(CH2)3-NET2

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:777902 CAPLUS

DN 139:293419

TI Mixtures of reactive azo dyes, their production and their use

IN Eichhorn, Joachim; Russ, Werner; Meier, Stefan; Mrotzek, Uwe

PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany

SO PCT Int. Appl., 220 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003080739	A1	20031002	WO 2003-EP2836	20030318
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TG, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10212769	A1	20031002	DE 2002-10212769	20020322
DE 10212770	A1	20031002	DE 2002-10212770	20020322
DE 10217476	A1	20031106	DE 2002-10217476	20020419
DE 10217478	A1	20031106	DE 2002-10217478	20020419
DE 10309406	A1	20040916	DE 2003-10309406	20030305
CA 2477718	AA	20031002	CA 2003-2477718	20030318
AU 2003222770	A1	20031008	AU 2003-222770	20030318
EP 1490441	A1	20041229	EP 2003-718695	20030318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003080755	A	20050111	BR 2003-8755	20030318
JP 2005520909	T2	20050714	JP 2003-578477	20030318
US 2005166339	A1	20050804	US 2003-508630	20030318
PRAI DE 2002-10212769	A	20020322		
DE 2002-10212770	A	20020322		
DE 2002-10217476	A	20020419		
DE 2002-10217478	A	20020419		
DE 2003-10309406	A	20030305		
WO 2003-EP2836	W	20030318		

OS MARPAT 139:293419

AB The invention relates to mixts. of one or more 1-amino-8-hydroxynaphthalenedisulfonic acid-based disazo dyes, one or more 6-amino-3-sulfo-1-naphthol-based disazo dyes, and optionally 1 or more other naphthalene group-containing azo dyes. The reactive dye mixts., which can be prepared chemically or by phys. blending, provide fast black shades on

cotton. In an example, 4-(2-sulfatoethylsulfonyl)aniline was diazotized and coupled with a mixture of 1-amino-8-hydroxynaphthalene-3,6-disulfonic acid and 4-hydroxy-7-(sulfomethylamino)naphthalene-2-sulfonic acid, followed by a second coupling with 7'-acetamido-4-hydroxynaphthalene-2-sulfonic acid to give a black mixture of reactive azo dyes.

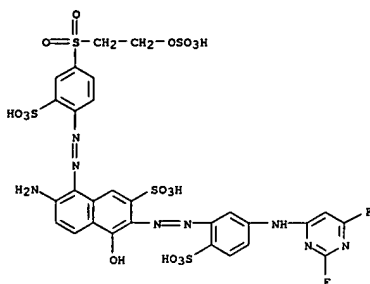
IT RL: TEM (Technical or engineered material use); USES (Uses)

(scarlet red dye; in black mixts. of reactive azo dyes for application to cotton)

RN 607724-38-9 CAPLUS

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[2,6-difluoro-4-pyrimidinyl]amino]-2-sulphophenyl]azo]-4-hydroxy-8-[[2-sulfo-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-, tetrasodium salt (9CI) (CA INDEX NAME)

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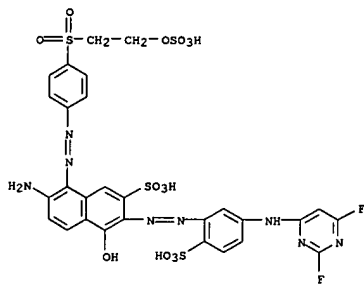
● 4 Na

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RN 607724-44-7 CAPLUS
 CN 2-Naphthalenesulfonic acid, 3-[[5-[[2,6-difluoro-4-pyrimidinyl]amino]-2-sulphophenyl]azo]-4-hydroxy-7-[(sulfoethyl)amino]-8-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-, tetrasodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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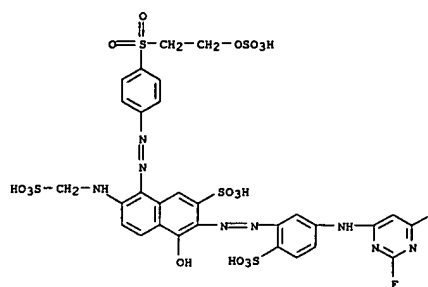
● 3 Na

PAGE 2-A

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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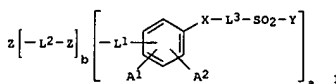
PAGE 2-A

● 4 Na

RN 607724-53-8 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-3-[[5-[[2,6-difluoro-4-pyrimidinyl]amino]-2-sulphophenyl]azo]-4-hydroxy-8-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-, trisodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 RN 1998:217555 CAPLUS
 DN 128:271684
 TI Reactive coloring materials with a heterocyclic anchor and their use
 IN Zamponi, Andrea; Patsch, Manfred; Hagen, Helmut; Walther, Bernd-Peter
 PA BASF A.-G., Germany
 SO Ger. Offen., 96 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19640189	A1	19980402	DE 1996-19640189	19960930
WO 9814522	A1	19980409	WO 1997-EP5041	19970915
W: CN, ID, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE EP 929610	A1	19990721	EP 1997-942930	19970915
EP 929610	B1	20020828		
R: CH, DE, FR, GB, IT, LI				
CN 1239493	A	19991222	CN 1997-180235	19970915
CN 1104472	B	20030402		
JP 2001501242	T2	20010130	JP 1998-516175	19970915
US 6197941	B1	20010306	US 1999-269186	19990329
PRAI DE 1996-19640189	A	19960930		
WO 1997-EP5041	W	19970915		
OS MARPAT 128:271684				
GI				



AB The reactive dyes (I; A1, A2 = H, NO2, amino, SO3H, SO2C2H4SO3H; L1, L2 = bridging groups; L3 = Cl-4-alkylene optionally containing O; X = 5- or 6-membered heterocyclic ring-containing connecting group; Y = vinyl or vinyl-forming group; Z = azo coupling component or chromophore) are obtained for dyeing or printing of substrates containing OH groups or N atoms.

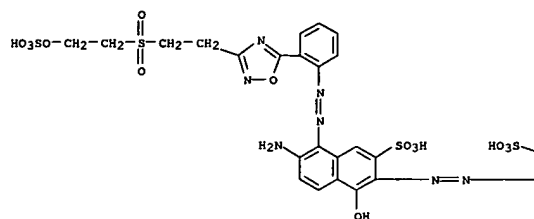
I show good fastness on cellulose. Thus, 5-(2-aminophenyl)-3-[(2-(2-sulfatoethylsulfonyl)ethyl)-1,2,4-oxadiazole] was prepared and used as a diazo component with 2-amino-8-hydroxy-3,6-naphthalenedisulfonic acid, providing a red dye.

IT 205237-93-OP
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (red brown dye; preparation of heterocycle-containing reactive dyes for cellulose)

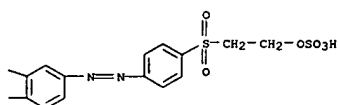
RN 205237-93-0 CAPLUS
 CN 2-Naphthalenesulfonic acid, 7-amino-4-hydroxy-8-[[2-[[3-[[2-(sulfooxy)ethyl]sulfonyl]ethyl]-1,2,4-oxadiazol-5-yl]phenyl]azo]-3-[[2-sulfo-4-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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PAGE 1-B



L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1997:532584 CAPLUS

DN 127:137062

TI Reactive azo dyes with an aminonaphthalenesulfonic acid coupling component, their intermediates and their use

IN Zamponi, Andrea; Patsch, Manfred; Löffler, Hermann

PA BASF A.-G., Germany; Zamponi, Andrea; Patsch, Manfred; Löffler, Hermann

SO PCT Int. Appl., 38 pp.

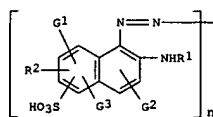
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9725377	A1	19970717	WO 1997-EP13	19970103
W: AU, BG, BR, CA, CN, CZ, GE, HU, IL, JP, KR, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ,				
TM RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE DE 19600765	A1	19970717	DE 1996-19600765	19960111
AU 9713096	A1	19970801	AU 1997-13096	19970103
EP 876431	A1	19981111	EP 1997-900559	19970103
EP 876431	B1	20011031		
R: CH, DE, FR, GB, IT, LI				
JP 2000503058	T2	20000314	JP 1997-524838	19970103
US 6011140	A	20000104	US 1998-101183	19980706
PRAI DE 1996-19600765	A	19960111		
WO 1997-EP13	W	19970103		
OS MARPAT 127:137062				
GI				



AB The dyes (I; n = 1, 2; G1 = H, HO; G2 = H, HO3S; G3 = H, arylazo; R1, R2

= H, HO3SCH2; X = radical of a diazo or tetrazo component having in each case at least one SO2Y group, where Y is vinyl or substituted Et) are obtainable from the appropriately substituted 2-naphthylamine coupling component precursors and are useful for dyeing or printing

hydroxyl-containing or nitrogenous organic substrates. Cellulosic substrates in particular are

dyed in very high fixation yield and with very high fastness. Thus, 2-aminonaphthalene-5-sulfonic acid was N-sulfomethylated and then coupled with diazotized 4-(2-sulfatoethylsulfonyl)aniline to give a scarlet (λmax 483 nm) dye.

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

IT 193065-37-1P 193065-38-2P 193065-39-3P

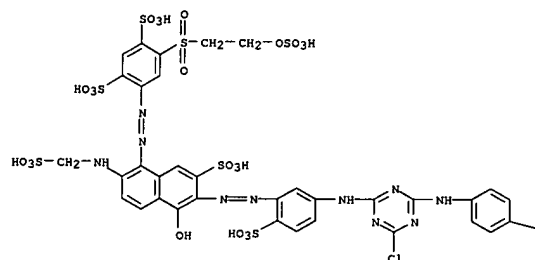
RI: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(reactive azo dyes from aminonaphthalenesulfonic acid coupling components)

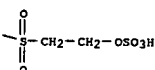
RN 193065-37-1 CAPLUS

CN 1,3-Benzenedisulfonic acid, 4-[[6-[[5-[[4-chloro-6-[[4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfoxyphenyl]azo]-5-hydroxy-7-sulfo-2-[[sulfoethyl]amino]-1-naphthalenyl]azo]-6-[[2-(sulfoxy)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



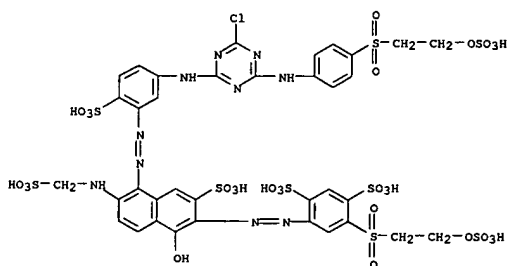
PAGE 1-B



RN 193065-38-2 CAPLUS

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

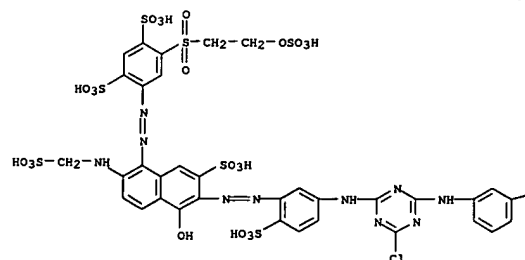
CN 1,3-Benzenedisulfonic acid, 4-[[5-[[5-[[4-chloro-6-[[4-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfoxyphenyl]azo]-1-hydroxy-3-sulfo-6-[[sulfoethyl]amino]-2-naphthalenyl]azo]-6-[[2-(sulfoxy)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)



RN 193065-39-3 CAPLUS

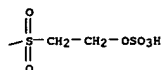
CN 1,3-Benzenedisulfonic acid, 4-[[6-[[5-[[4-chloro-6-[[3-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfoxyphenyl]azo]-5-hydroxy-7-sulfo-2-[[sulfoethyl]amino]-1-naphthalenyl]azo]-6-[[2-(sulfoxy)ethyl]sulfonyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-B



L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1996:38882 CAPLUS

DN 124:178813

TI Dyeing cellulosic or cellulosic blend fabrics with reactive dyes
treatable with copper salts and treating dyed fabrics with copper salts for
improved

lightfastness

IN Morimura, Naoki; Sotokoshi, Teruhito

PA Nippon Kayaku Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

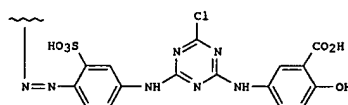
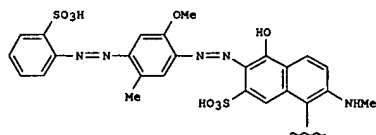
CODEN: JIOKXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07258983	A2	19951009	JP 1994-70230	19940316
PRAI JP 1994-70230		19940316		
GI				



I

AB In the title process, cellulosic fibers are dyed with reactive dyes
having

a structure for coordination with Cu, optionally washed without the
soaping step, and treated with Cu salts or their mixts. with other fixing
agents. A cotton knit was dyed with a solution containing reactive dye

I, washed
with hot H2O, dried, and treated with an aqueous CuSO4 solution at 60°
for

20 min to give a greenish dark blue fabric with color yield 130% and
lightfastness rating (JIS L-0842-1988) 6.

IT 172465-73-5

RL: TEM (Technical or engineered material use); USES (Uses)
(dye; for dyeing cellulosic or cellulosic blend fabrics and

L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

aftertreatment with copper salts for improved lightfastness)

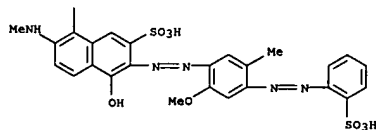
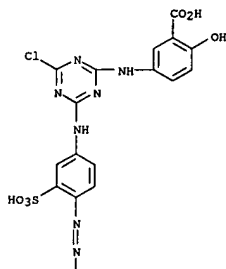
RN 172465-73-5 CAPLUS

CN Benzoic acid,

5-[[4-chloro-6-[[4-[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[(2-

sulphophenyl)azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-3-
sulphophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX
NAME)

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PAGE 2-A

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:986734 CAPLUS

DN 124:90174

TI Reactive dyeing and copper-post-treatment of cellulosic fibers

IN Morimura, Naoki

PA Nippon Kayaku Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JIOKXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07252786	A2	19951003	JP 1994-66512	19940311
PRAI JP 1994-66512		19940311		

AB Cellulosic fibers are dyed with reactive dyes coordinatable with Cu and
then treated with copper to improve colorfastness. The dyed products are
also claimed. Thus, a cotton fabric was dyed in an aqueous dyeing bath
containing

a reactive triazo dye and anhydrous Glauber's salt, mixed with Na2CO3

and washed to give a dyed fabric showing deep bluish red. Dipping the dyed
fabric in an aqueous solution containing Cu sulfate, heating to 60°,
keeping

at this temperature for 20 min, washing, soaping, dewatering and drying
gave a fabric showing deep bordeaux color with lightfastness rating 5 and
washfastness rating 4-5.

IT 172465-73-5

RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC
(Process); RACT (Reactant or reagent)

(reactive dyeing and copper treatment of cellulosic fibers for
improved

lightfastness and washfastness)

RN 172465-73-5 CAPLUS

CN Benzoic acid,

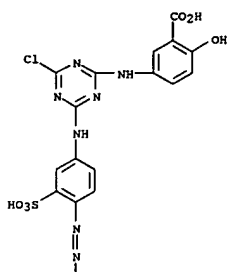
5-[[4-chloro-6-[[4-[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[(2-

sulphophenyl)azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-3-
sulphophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX
NAME)

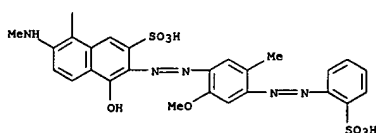
L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

PAGE 1-A



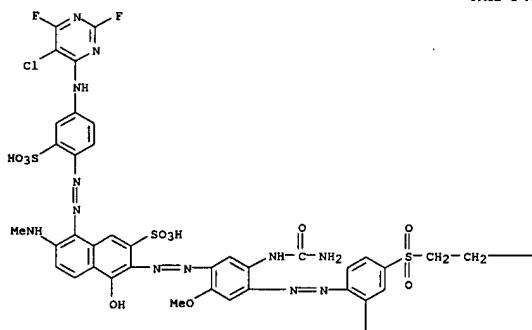
PAGE 2-A



L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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PAGE 1-B

—OSO₃H|
SO₃H

PAGE 2-A

RN 135459-65-3 CAPLUS

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1991:494413 CAPLUS

DN 115:94413

T1 Water-soluble fiber-reactive trisazo dyes for cellulosic or nitrogen-containing fibers

IN Hibara, Toshio

PA Mitsubishi Kasei Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKOKAF

DT Patent

LA Japanese

FAN.CMT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 03056569	A2	19910312	JP 1989-193120	19890726
JP 2729402	B2	19980318		
PRAI JP 1989-193120		19890726		
OS MARPAT 115:94413				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The dyes [I (as free acid); R₁ = H, SO₃H, SO₂W; R₂ = H, SO₃H; W = CH:CH₂, CH₂CH₂OSO₃H; X = 5-chloro-2,6-difluoro-4-pyrimidinyl, Q1; Y = halogen, NHC₆H₄SO₂W; Z = (un)substituted lower alkylamino or phenylamino, NHC₆H₄SO₂W] give fast navy blue dyed products. Thus, 1 mol monoazo compound

II was diazotized and coupled with 1 mol monoazo dye III (R₃ = H) in water

at 10 ± 3° and pH 7.5-8.5 to give trisazo dye III (R₃ = Q2), λ_{max} 607 nm. Then, 3 g of the dye was dissolved in 300 mL water, then mixed with 20 g Glauber's salt to give a dyebath; 15 g cotton cloth was immersed in the bath, heated to 70°, 4.5 g Na₂CO₃ was added, then heated at 70° for 1 h, washed with water, soaped, washed with water, then dried to give a navy-blue product, which showed good resistance to discoloration by ironing and by immersion in aqueous NaOH.

IT 135459-64-2P 135459-65-3P 135459-66-4P
135459-67-5P 135459-68-6P 135459-69-7P
135459-70-8P 135459-71-1P 135459-72-2P
135459-73-3P 135459-74-4P 135459-75-5P
135459-76-6P 135459-77-7P 135459-80-2P
135484-38-7P

RL: PREP (Preparation)
(manufacture of, as water-soluble reactive navy blue dye for cotton)

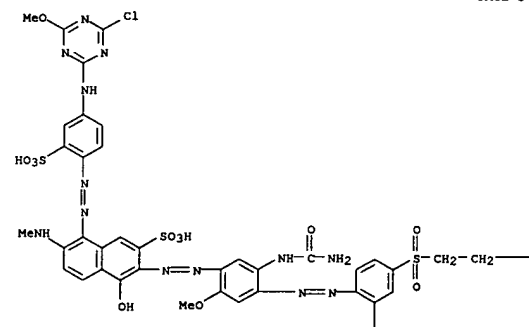
RN 135459-64-2 CAPLUS

CN 2-Naphthalenesulfonic acid, 3-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-sulfo-4-[[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-8-[[4-[[5-chloro-2,6-difluoro-4-pyrimidinyl]amino]-2-sulfo-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CN 2-Naphthalenesulfonic acid, 3-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-sulfo-4-[[[2-(sulfoxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-8-[[4-[[4-chloro-6-methoxy-1,3,5-triazin-2-yl]amino]-2-sulfo-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

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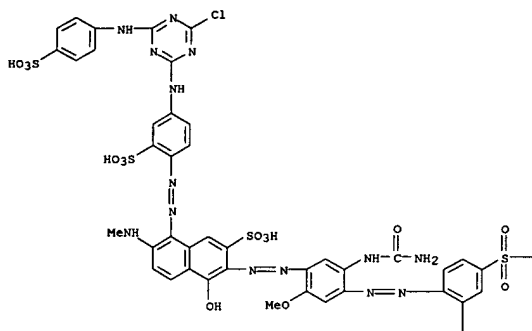
—OSO₃H

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PAGE 2-A

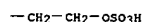


RN 135459-66-4 CAPLUS
CN 2-Naphthalenesulfonic acid, 3-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]phenyl]azo]-8-[[4-[[4-chloro-6-[[4-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

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L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PAGE 1-B

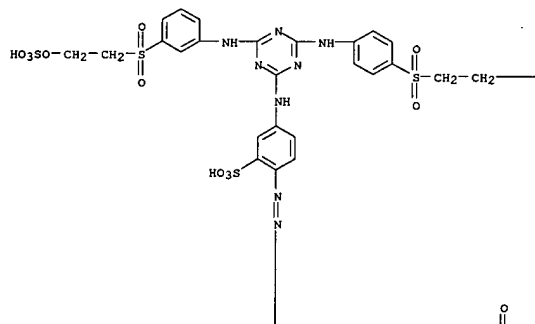


PAGE 2-A
 $\begin{array}{c} | \\ \text{SO}_3\text{H} \end{array}$

RN 135459-67-5 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[[[2-[(aminocarbonyl)amino]-4-[[1-hydroxy-6-(methylamino)-3-sulfo-5-[[2-sulfo-4-[[4-[[3-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]phenyl]azo]-2-naphthalenyl]azo]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

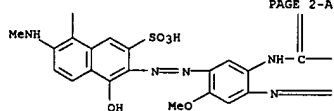
PAGE 1-A



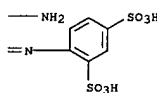
PAGE 1-B



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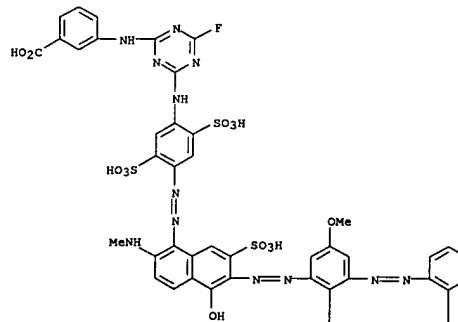


L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PAGE 2-B



RN 135459-68-6 CAPLUS
CN Benzoic acid, 3-[[[4-[[[6-[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2,5-disulfophenyl]amino]-6-fluoro-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

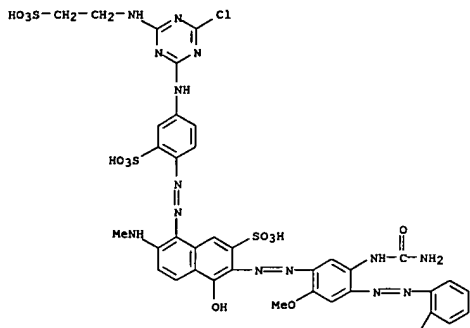


PAGE 2-A
 $\begin{array}{c} | \\ \text{NH---C---NH}_2 \\ || \\ \text{O} \end{array}$
 $\begin{array}{c} | \\ \text{SO}_3\text{H} \end{array}$

RN 135459-69-7 CAPLUS
CN 2-Naphthalenesulfonic acid, 3-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-8-[[4-[[4-chloro-6-[[2-sulfoethyl]amino]-1,3,5-

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 triazin-2-yl]amino]-2-sulphophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI)
 (CA INDEX NAME)

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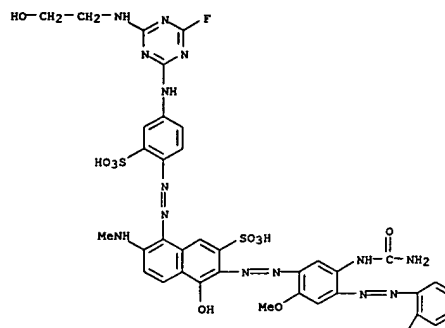
PAGE 2-A

HO₃S

RN 135459-70-0 CAPLUS
 CN 2-Naphthalenesulfonic acid, 3-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[(2-sulphophenyl)azo]phenyl]azo]-8-[[[4-[[4-fluoro-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulphophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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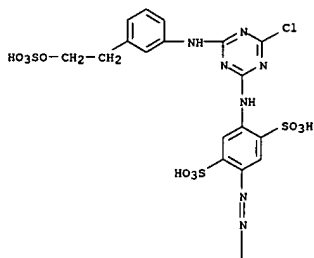
PAGE 2-A

HO₃S

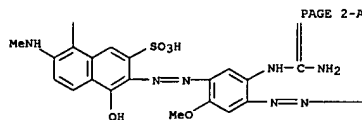
RN 135459-71-1 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[[6-[[5-[(aminocarbonyl)amino]-2-methoxy-4-[(2-sulphophenyl)azo]phenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-5-[[[4-chloro-6-[[3-[(sulfoxy)ethyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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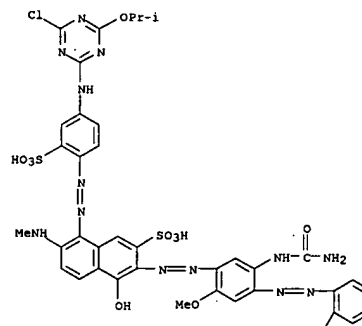
PAGE 2-B



RN 135459-72-2 CAPLUS
 CN 2-Naphthalenesulfonic acid, 3-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[(2-sulphophenyl)azo]phenyl]azo]-8-[[[4-[[4-chloro-6-[(1-methylethoxy)-1,3,5-triazin-2-yl]amino]-2-sulphophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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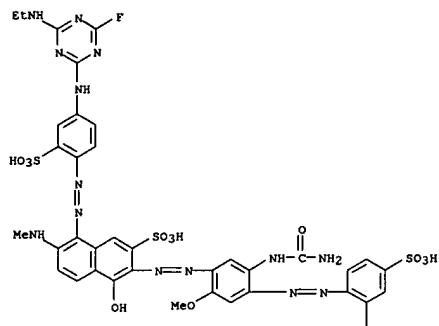
HO₃S

RN 135459-73-3 CAPLUS
 CN 1,3-Benzenedisulfonic acid, 4-[[[2-[(aminocarbonyl)amino]-4-[[[5-[[[4-(ethylamino)-6-fluoro-1,3,5-triazin-2-yl]amino]-2-sulphophenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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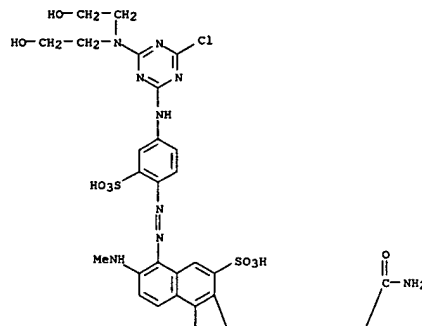


RN 135459-74-4 CAPLUS
 CN 2-Naphthalenesulfonic acid, 3-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[(2-sulfophenyl)azo]phenyl)azo]-8-[[4-[[4-bis(2-hydroxyethyl)amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-7-(methylamino)-(9CI) (CA INDEX NAME)

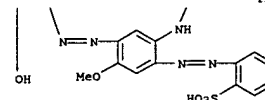
L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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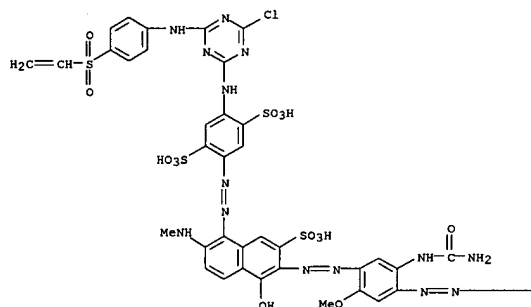


RN 135459-75-5 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[[6-[[[5-[(aminocarbonyl)amino]-2-methoxy-4-[(2-sulfophenyl)azo]phenyl)azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-5-[[4-chloro-6-[(4-ethenylsulfonyl)phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

(Continued)

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L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

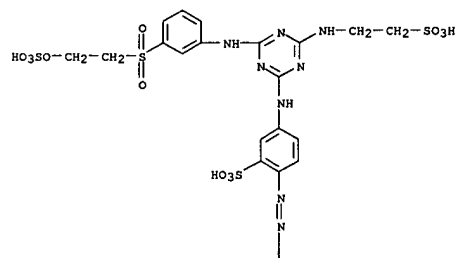
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PAGE 2-B

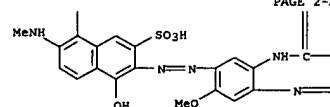


RN 135459-76-6 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[[6-[[[5-[(aminocarbonyl)amino]-4-[[1-hydroxy-6-(methylamino)-3-sulfo-5-[[2-sulfo-4-[[4-[(2-sulfoethyl)amino]-6-[[3-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]phenyl]azo]-2-naphthalenyl]azo]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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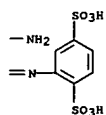


PAGE 2-A



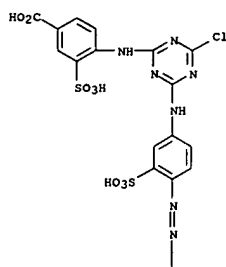
L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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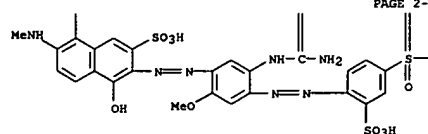
RN 135459-77-7 CAPLUS
 CN Benzoic acid, 4-[[4-[[4-[[6-[[5-[(aminocarbonyl)amino]-4-[[4-(ethenylsulfonyl)-2-sulfo-1-naphthalenyl]azo]-2-methoxyphenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-3-sulfo-1-naphthalenyl]azo]-6-chloro-1,3,5-triazin-2-yl]amino]-3-sulfo- (9CI) (CA INDEX NAME)

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L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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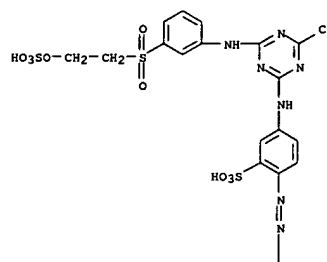


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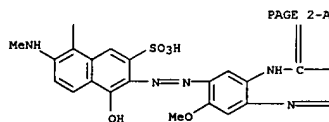
RN 135459-80-2 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[2-[(aminocarbonyl)amino]-4-[[5-[[4-[[4-chloro-6-[[3-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-1-naphthalenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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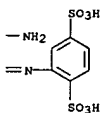


L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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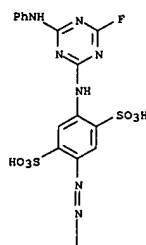
PAGE 2-B



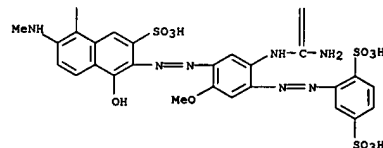
RN 135484-38-7 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[6-[[5-[(aminocarbonyl)amino]-4-[[2,5-disulfo-1-naphthalenyl]azo]-2-methoxyphenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-5-[[4-fluoro-6-(phenylamino)-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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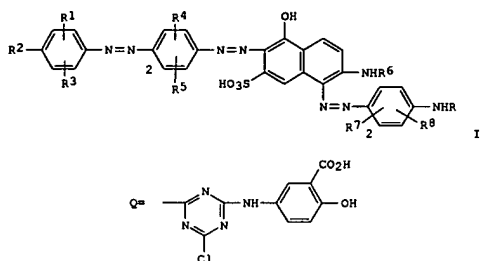


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L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1989:77498 CAPLUS
 DN 110:77498
 TI Navy-blue reactive triazo dyes and dyeing therewith
 IN Matsunaga, Ryozo; Sotokoshi, Teruhito
 PA Nippon Kayaku Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JIOKXAF
 DT Patent
 LA Japanese
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63199269	A2	19880817	JP 1987-29523	19870213
	JP 07013200	B4	19950215		
PRAI	JP 1987-29523		19870213		
OS	MARPAT 110:77498				
GI					



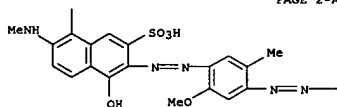
AB The title dyes providing cotton dyeings excellent in fastness to both chlorine water and perspiration-light combination have the free-acid form I (R = fiber-reactive group residue based on N-heterocycles containing halogen; R1, R2, R3 = H, Me, OMe, OEt, Cl, CO2H, OH, SO3H, NO2, NHAc, NHCONH2, SO2NH2, SO2Me, SO2CH2CH2OH; R4, R5 = OMe, OEt, NHAc, Me; R6 =

Me, Et, Ph; R7, R8 = SO3H, CO2H, Me, Cl, NO2, H). Condensate of cyanuric chloride with 2,5-HO(H2N)C6H3CO2H and 2,5-(H2N)2C6H3SO3H was diazotized and coupled with 1,6,3-HO(MeNH)C10H5SO3H, and the resulting azo compound coupled with diazotized 2-H2NCH4SO3H → 2,5-MeOMeC6H3NH2 and salted to give I (R = Q; R1 = 2-SO3H; R2 = R3 = R8 = H; R4 = 5-OMe; R5 = 2-Me;

R6 = Me; R7 = 2-SO3H; Na salt).
 IT 118695-19-5 118695-20-8 118695-21-9
 118695-22-0 118695-23-1 118695-24-2
 118695-25-3 118695-26-4 118695-27-5

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 118695-20-8 CAPLUS
 CN 1,3-Benzenedisulfonic acid,
 4-[[4-[[5-[[4-[[4-chloro-6-(methylamino)-1,3,5-triazin-2-yl]amino]-3-nitrophenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-5-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

118695-28-6 118695-29-7 118695-30-0
 118695-31-1 118695-32-2 118695-33-3
 118695-34-4 118695-35-5 118695-36-6
 118695-37-7 118695-38-8 118695-39-9
 118695-40-2 118695-41-3 118695-42-4
 118695-43-5 118695-44-6 118695-45-7
 118695-46-8 118695-47-9 118695-48-0
 118695-49-1 118695-50-4 118695-51-5
 118695-52-6 118695-53-7 118695-54-8
 118695-55-9 118695-56-0 118695-57-1
 118720-55-1 118720-56-2 118720-57-3
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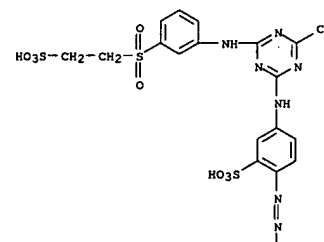
RL: USES (Uses)

(dye, navy blue, for cotton)

RN 118695-19-5 CAPLUS

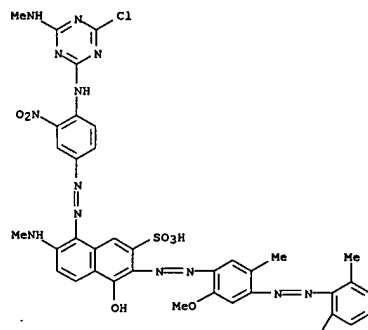
CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[[3-[[2-sulfoethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-phenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[[2-sulfo-phenyl]azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

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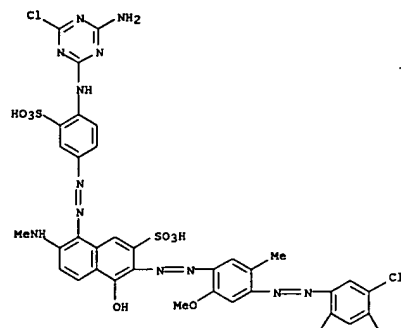


RN 118695-21-9 CAPLUS

CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-amino-6-chloro-1,3,5-triazin-2-yl]amino]-3-sulfo-phenyl]azo]-3-[[4-[[2,5-dichloro-4-sulfo-phenyl]azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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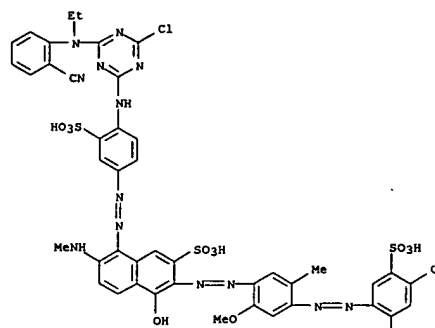
PAGE 2-A



RN 118695-22-0 CAPLUS
 CN Benzoic acid, 5-chloro-2-[[4-[[5-[[4-[[4-chloro-6-[(2-cyanophenyl)ethylamino]-1,3,5-triazin-2-yl]amino]-3-sulfo-phenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-4-sulfo- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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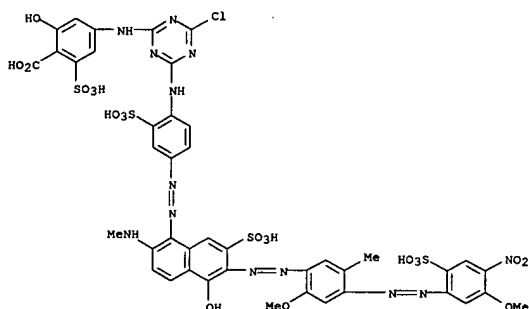


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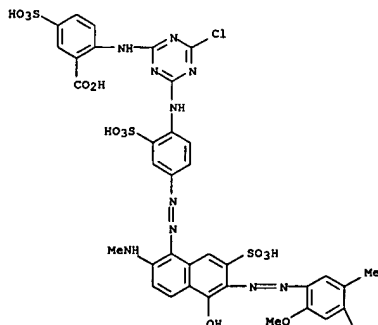
RN 118695-23-1 CAPLUS
 CN Benzoic acid, 4-[[4-chloro-6-[[4-[[5-hydroxy-6-[[2-methoxy-4-[(5-methoxy-4-nitro-2-sulfo-phenyl)azo]-5-methylphenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfo-phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy-6-sulfo- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



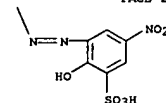
RN 118695-24-2 CAPLUS
 CN Benzoic acid, 2-[[4-chloro-6-[[4-[[5-hydroxy-6-[[4-[(2-hydroxy-5-nitro-3-sulfo-phenyl)azo]-2-methoxy-5-methylphenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfo-phenyl]amino]-1,3,5-triazin-2-yl]amino]-5-sulfo- (9CI) (CA INDEX NAME)

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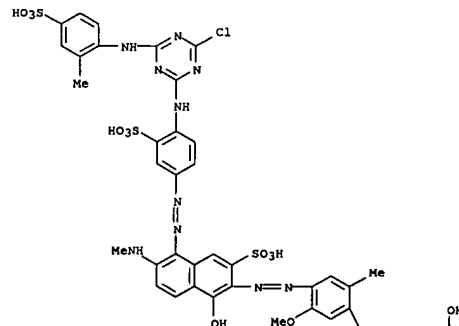
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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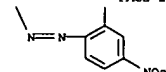


RN 118695-25-3 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[(2-methyl-4-sulfo-phenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfo-phenyl]azo]-4-hydroxy-3-[[4-[(2-hydroxy-4-nitrophenyl)azo]-2-methoxy-5-methylphenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

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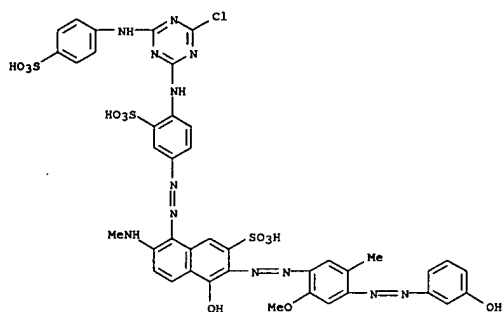


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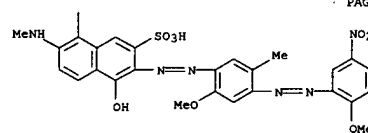


RN 118695-26-4 CAPLUS

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[[4-sulfo(phenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfo(phenyl)azo]-4-hydroxy-3-[[4-[[3-hydroxy(phenyl)azo]-2-methoxy-5-methylphenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

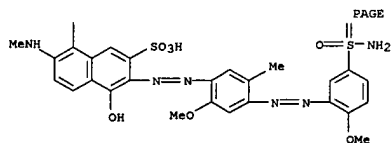
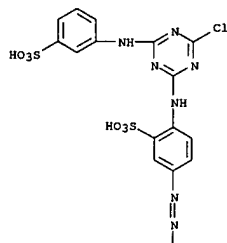


RN 118695-27-5 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[[3-sulfo(phenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfo(phenyl)azo]-4-hydroxy-3-[[2-methoxy-4-[[2-methoxy-5-nitro(phenyl)azo]-5-methylphenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)



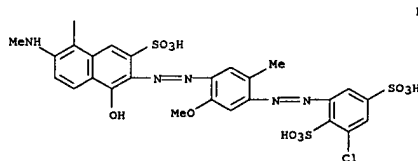
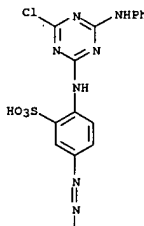
RN 118695-28-6 CAPLUS
 CN 2-Naphthalenesulfonic acid, 3-[[4-[[5-(aminosulfonyl)-2-methoxy(phenyl)azo]-2-methoxy-5-methylphenyl]azo]-8-[[4-[[4-chloro-6-[[3-sulfo(phenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfo(phenyl)azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

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RN 118695-29-7 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-chloro-6-[[4-[[5-[[4-[[4-chloro-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-3-sulfo(phenyl)azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]- (9CI) (CA INDEX NAME)

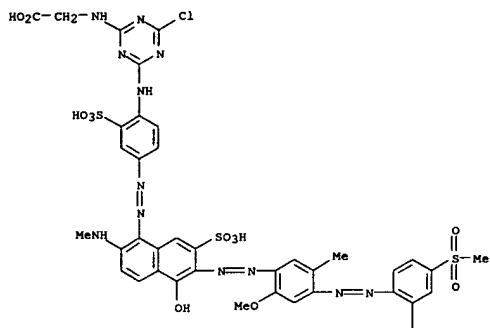
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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RN 118695-30-0 CAPLUS
 CN Glycine, N-[4-chloro-6-[[4-[[5-hydroxy-6-[[4-[[2-hydroxy-4-(methylsulfonyl)phenyl]azo]-2-methoxy-5-methylphenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfo(phenyl)amino]-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)

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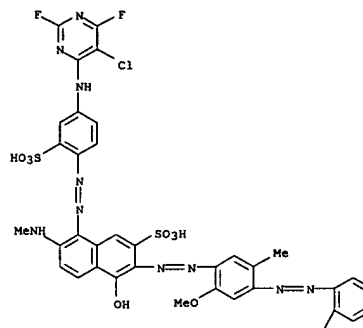
PAGE 2-A



RN 118695-31-1 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[(5-chloro-2,6-difluoro-4-pyrimidinyl)amino]-2-sulphophenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulphophenyl)azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

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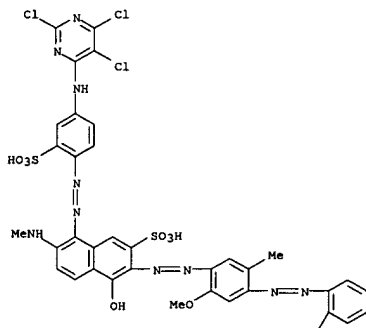
PAGE 2-A



RN 118695-32-2 CAPLUS
 CN 2-Naphthalenesulfonic acid, 4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulphophenyl)azo]phenyl]azo]-7-(methylamino)-8-[[2-sulfo-4-[(2,5,6-trichloro-4-pyrimidinyl)amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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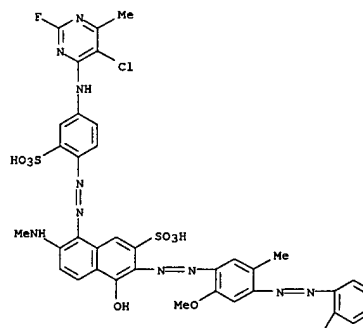
PAGE 2-A



RN 118695-33-3 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[(5-chloro-2-fluoro-6-methyl-4-pyrimidinyl)amino]-2-sulphophenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulphophenyl)azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

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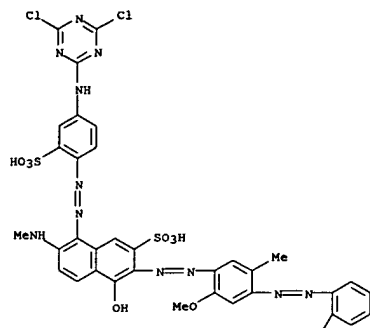
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RN 118695-34-4 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-2-sulphophenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulphophenyl)azo]phenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

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RN 118695-35-5 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[[4-[[[2,3-dichloro-6-quinoxalyl]carbonyl]amino]-2-sulfonylphenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(2-sulfonylphenyl)azo]phenyl]azo]-7-(methylamino)-2-hydroxy-1,3,5-triazin-2-yl]amino]-2-hydroxy-9CI (CA INDEX NAME)

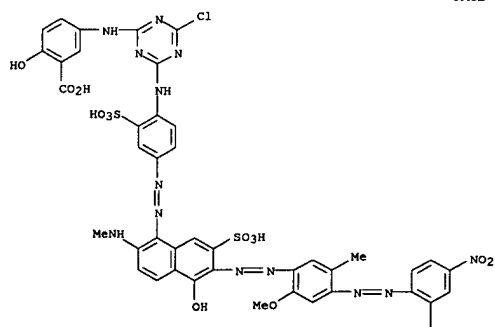
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 118695-37-7 CAPLUS
 CN Benzoic acid, 5-[[[4-chloro-6-[[[4-[[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[(4-nitro-2-sulfonylphenyl)azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfonylphenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy-9CI (CA INDEX NAME)

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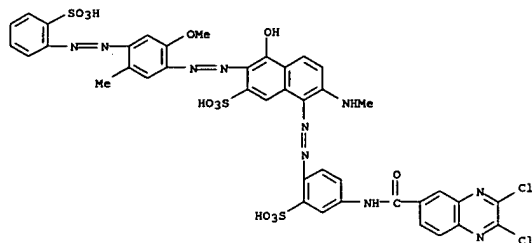


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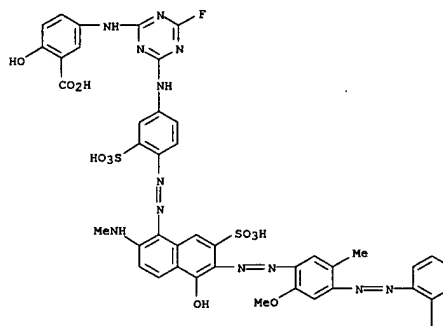
RN 118695-38-8 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[[4-[[[4-chloro-6-[[2-hydroxyethyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfonylphenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(phenylazo)phenyl]azo]-7-(methylamino)-2-hydroxy-9CI (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

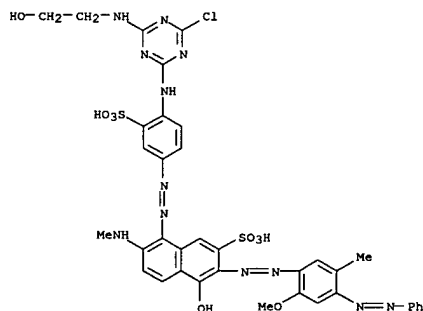


RN 118695-36-6 CAPLUS
 CN Benzoic acid, 5-[[[4-fluoro-6-[[[4-[[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[(2-sulfonylphenyl)azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-3-sulfonylphenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy-9CI (CA INDEX NAME)

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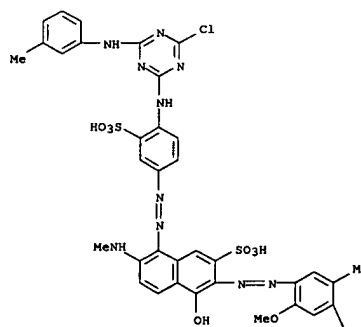


L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

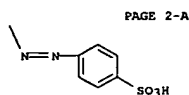


RN 118695-39-9 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[[4-[[[4-chloro-6-[[3-methylphenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfonylphenyl]azo]-4-hydroxy-3-[[2-methoxy-5-methyl-4-[(4-sulfonylphenyl)azo]phenyl]azo]-7-(methylamino)-2-hydroxy-9CI (CA INDEX NAME)

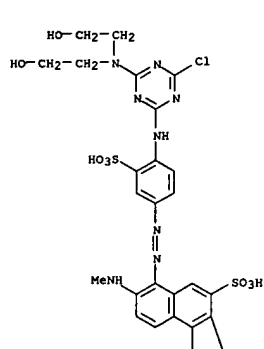
PAGE 1-A



L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

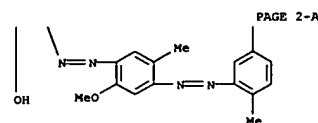


RN 118695-40-2 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-bis(2-hydroxyethyl)amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-3-[[4-[(2,5-dimethylphenyl)azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)



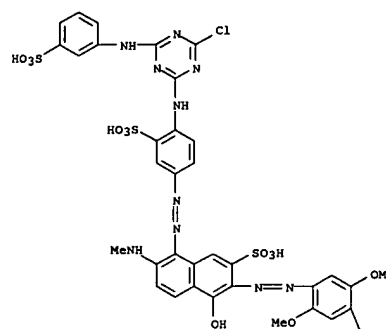
Me

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

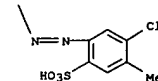


RN 118695-41-3 CAPLUS
 CN 2-Naphthalenesulfonic acid, 3-[[4-[(5-chloro-4-methyl-2-sulfophenyl)azo]-2,5-dimethoxyphenyl]azo]-8-[[4-[[4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

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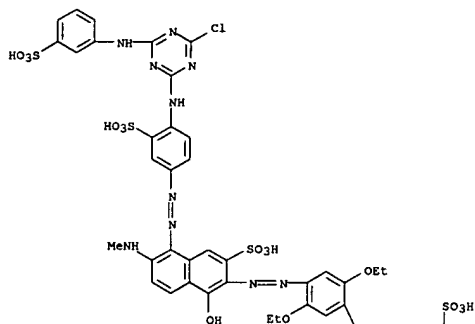
PAGE 2-A



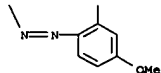
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 118695-42-4 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-3-[[2,5-diethoxy-4-[(4-methoxy-2-sulfophenyl)azo]phenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

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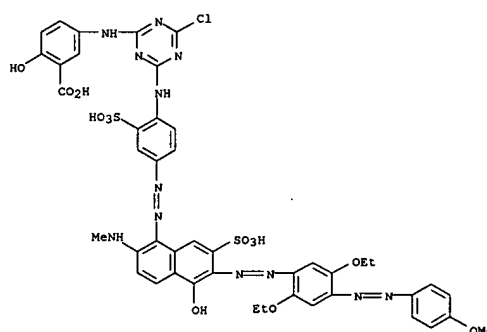
SO₂H

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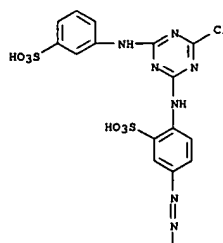
RN 118695-43-5 CAPLUS
 CN Benzoic acid, 5-[[4-chloro-6-[[4-[[6-[(2,5-diethoxy-4-[(4-methoxyphenyl)azo]phenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



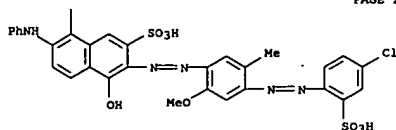
RN 118695-44-6 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]azo]-3-[[4-[[4-chloro-2-sulfophenyl]azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(phenylamino)- (9CI) (CA INDEX NAME)

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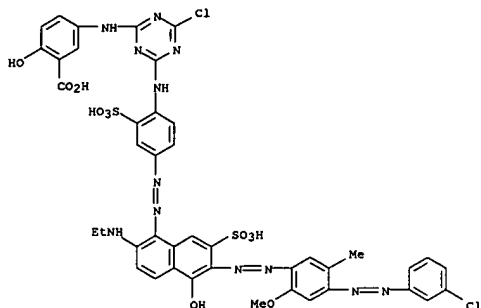
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 118695-45-7 CAPLUS

CN Benzoic acid,
5-[[4-chloro-6-[[4-[[6-[[4-[(3-chlorophenyl)azo]-2-methoxy-5-methylphenyl]azo]-2-(ethylamino)-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-2-sulphophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

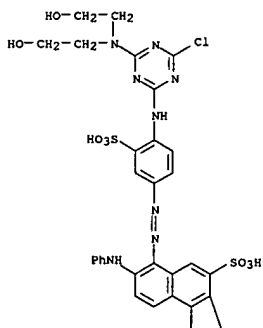


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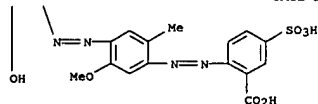
CN 2-Naphthalenesulfonic acid,
3-[[4-[[2-chloro-6-hydroxy-4-sulphophenyl]azo]-2,5-dimethoxyphenyl]azo]-8-[[4-[[4-chloro-6-[(3-sulphophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulphophenyl]azo]-7-(ethylamino)-4-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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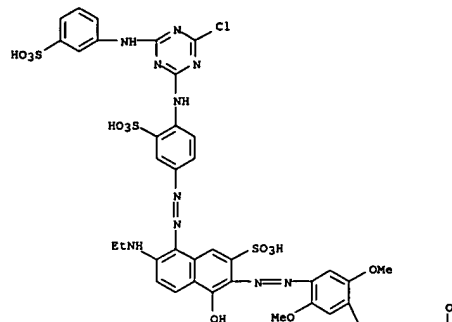


RN 118695-48-0 CAPLUS

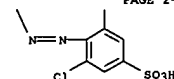
CN Benzoic acid, 5-[[4-[[5-[[4-[[bis(2-hydroxyethyl)amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-sulphophenyl]azo]-1-hydroxy-6-(phenylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-2-hydroxy-3-sulfo- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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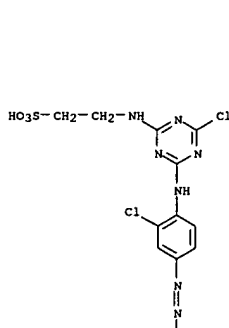


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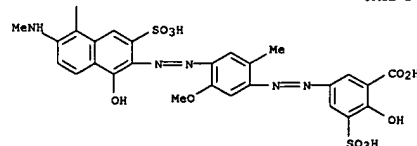
CN Benzoic acid,
2-[[4-[[5-[[4-[[bis(2-hydroxyethyl)amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-sulphophenyl]azo]-1-hydroxy-6-(phenylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-5-sulfo- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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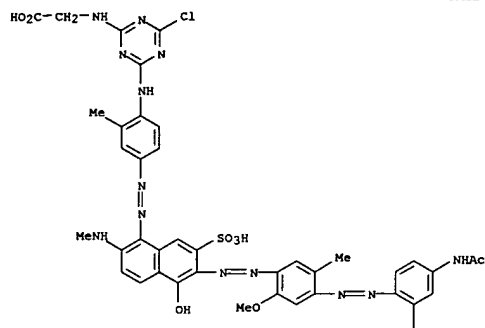


RN 118695-49-1 CAPLUS

CN Benzoic acid, 5-(acetylamino)-2-[[4-[[5-[[4-[[bis(2-hydroxyethyl)amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-methylphenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-5-sulfo- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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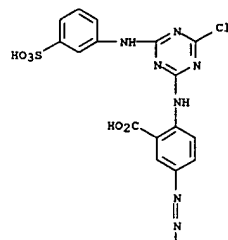
PAGE 2-A



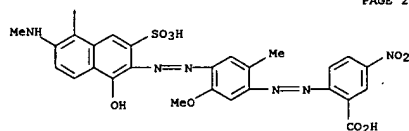
RN 118695-50-4 CAPLUS
 CN Benzoic acid, 2-[[4-[[5-[[3-carboxy-4-[[4-chloro-6-((3-sulfophenyl)amino)-1,3,5-triazin-2-yl]amino]phenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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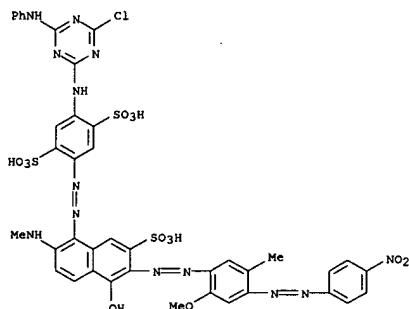


PAGE 2-A



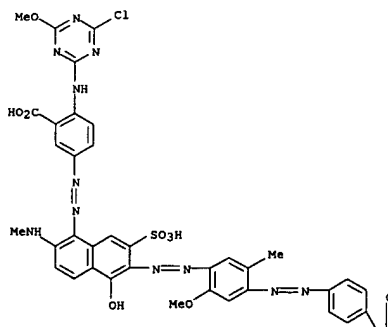
RN 118695-51-5 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[4-chloro-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-5-[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[[4-nitrophenyl]azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



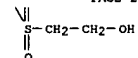
RN 118695-52-6 CAPLUS
 CN Benzoic acid, 2-[[4-chloro-6-methoxy-1,3,5-triazin-2-yl]amino]-5-[[5-hydroxy-6-[[4-[[4-[[2-hydroxyethyl]sulfonyl]phenyl]azo]-2-methoxy-5-methylphenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

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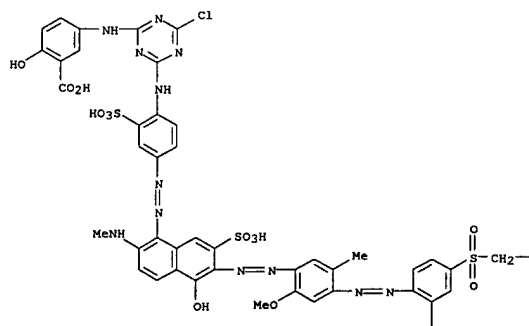
L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A



RN 118695-53-7 CAPLUS
 CN Benzoic acid, 5-[[4-chloro-6-[[4-[[5-hydroxy-6-[[4-[[4-[[2-hydroxyethyl]sulfonyl]phenyl]azo]-2-methoxy-5-methylphenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfo-1-naphthalenyl]azo]-2-hydroxy- (9CI) (CA INDEX NAME)

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L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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—CH₂—OH

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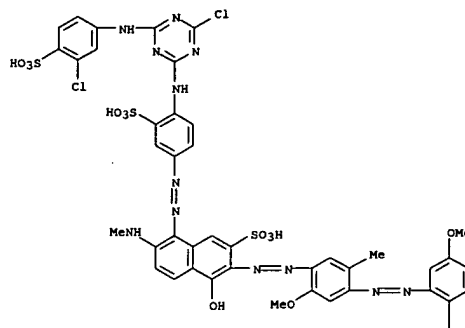


RN 118695-54-8 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[[4-[[[4-chloro-6-[(3-chloro-4-sulfo-phenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfo-phenyl]azo]-3-[[4-[(2,5-dimethoxyphenyl)azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

PAGE 2-A
 OMe

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

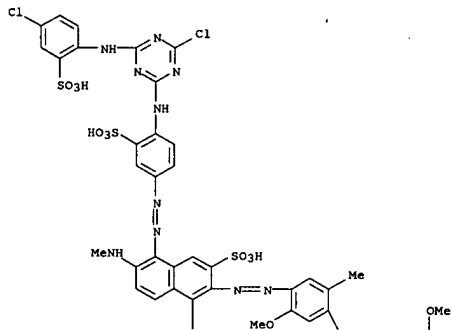


RN 118695-55-9 CAPLUS
 CN 2-Naphthalenesulfonic acid, 8-[[[4-[[[4-chloro-6-[(4-chloro-2-sulfo-phenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfo-phenyl]azo]-4-hydroxy-3-[[2-methoxy-4-[(2-methoxy-5-methylphenyl)azo]-5-methylphenyl]azo]-7-(methylamino)- (9CI) (CA INDEX NAME)

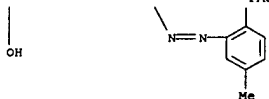
PAGE 2-A
 OMe

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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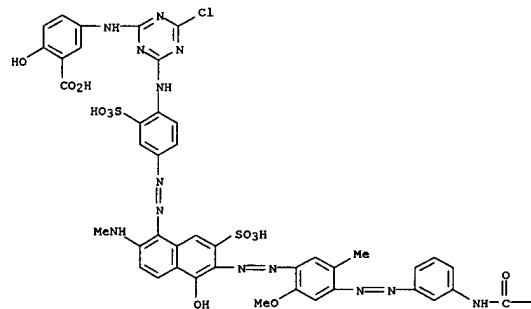
PAGE 2-A



RN 118695-56-0 CAPLUS
 CN Benzoic acid, 5-[[[4-[[[6-[[[4-[[[3-[(aminocarbonyl)amino]phenyl]azo]-2-methoxy-5-methylphenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulfo-phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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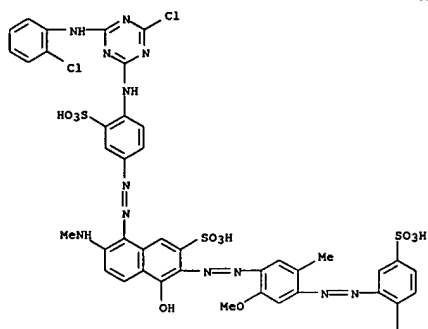
PAGE 1-B

—NH₂

RN 118695-57-1 CAPLUS
 CN 1,4-Benzenedisulfonic acid, 2-[[[4-[[[5-[[[4-[[[4-chloro-6-[(2-chlorophenyl)amino]-1,3,5-triazin-2-yl]amino]-3-sulfo-phenyl]azo]-1-hydroxy-6-(methylamino)-3-sulfo-2-naphthalenyl]azo]-5-methoxy-2-methylphenyl]azo]-

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(9CI) (CA INDEX NAME)

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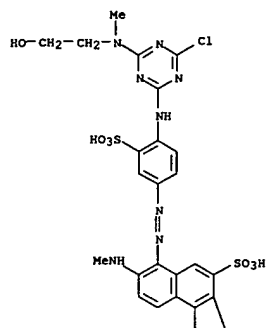


PAGE 2-A
SO₃H

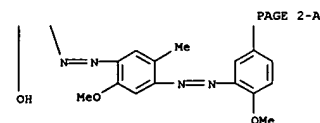
RN 118720-55-1 CAPLUS
CN 2-Naphthalenesulfonic acid, 8-[[4-[[4-chloro-6-[(2-hydroxyethyl)methylamino]-1,3,5-triazin-2-yl]amino]-3-sulphophenyl]azo]-3-[[4-[(5-chloro-2-methoxyphenyl)azo]-2-methoxy-5-methylphenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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Cl

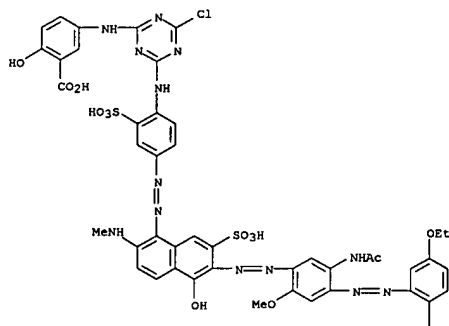


PAGE 2-A

RN 118720-56-2 CAPLUS
CN Benzoic acid, 5-[[4-[[4-[[6-[(5-(acetylamino)-4-[(2,5-diethoxyphenyl)azo]-2-methoxyphenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulphophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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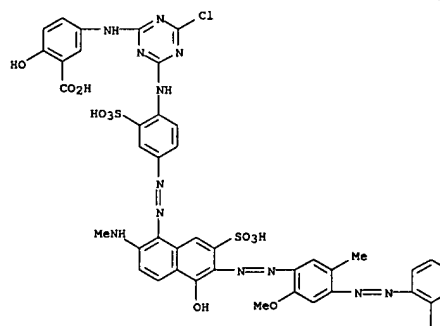


PAGE 2-A
OEt

RN 118720-57-3 CAPLUS
CN Benzoic acid, 5-[[4-[[4-[[6-[(5-(acetylamino)-4-[(2,5-diethoxyphenyl)azo]-2-methoxy-5-methylphenyl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-2-sulphophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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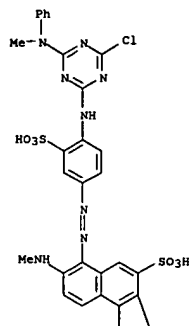


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CO₂H

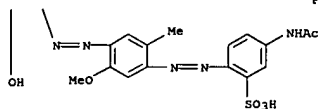
RN 118720-58-4 CAPLUS
CN 2-Naphthalenesulfonic acid, 3-[[4-[[4-(acetylamino)-2-sulphophenyl]azo]-2-methoxy-5-methylphenyl]azo]-8-[[4-[[4-chloro-6-(methylphenylamino)-1,3,5-triazin-2-yl]amino]-3-sulphophenyl]azo]-4-hydroxy-7-(methylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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RN 118775-97-6 CAPLUS
 CN Benzoic acid,
 5-[[4-chloro-6-[[4-[[5-hydroxy-6-[[2-methoxy-5-methyl-4-[[2-sulphophenyl]azo]phenyl]azo]-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-3-sulphophenyl]amino]-1,3,5-triazin-2-yl]amino]-2-hydroxy-, tetrasodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1982:440310 CAPLUS
 DN 97:40310
 TI Trisazo direct dyes
 PA Nippon Kayaku Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKKXAF

DT Patent
 LA Japanese

FWN.CVT 1	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57047358	A2	19820318	JP 1980-121231	19800903
	JP 63017300	B4	19880413		
	DE 3134579	A1	19820819	DE 1981-3134579	19810901
	CH 646448	A	19841130	CH 1981-5659	19810902
PRAI	JP 1980-121231	A	19800903		
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Trisazo direct dyes of free acid form I (R = H, Me, Ph; R1 = Ac, PhSO2, MeC6H4SO2, ClC6H4SO2, R2; R3 = HO, CO2H, or SO3H group-containing, aliphatic

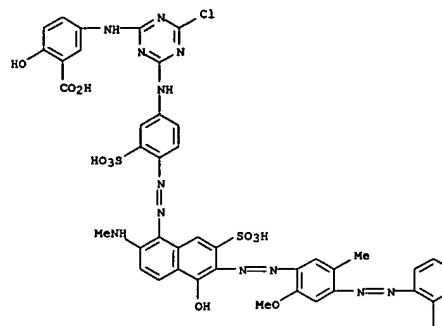
amine residue or morpholino) were prepared which can be used together with a disperse and cationic dye in dyeing cotton-polyester and cotton-acrylic blends, resp., in navy blue shades. For example, 4,3-H2N(MeO)C6H3C6H3(OMe)NH2-3,4 [119-90-4] was tetrazotized and coupled with 1,8,3,6-(4-MeC6H4SO2NH)(HO)C10H4(SO3H)2 [6860-97-5] and then 1,2,5,7-[2,4-(HO2C)(O2N)C6H3N:N](H2N)(HO)C10H4SO3H [61827-73-4] and salted to give I (R = H; R1 = 4-MeC6H4SO2) [82382-81-8].

IT 82382-66-9P 82382-67-0P 82382-68-1P 82382-69-2P 82382-70-5P 82382-71-6P
 RI: MSC (Miscellaneous); PREP (Preparation)
 (dyes, direct, for cotton blends, manufacture of)

RN 82382-66-9 CAPLUS
 CN Benzoic acid, 2-[[[2-amino-5-hydroxy-6-[[4'-[[1-hydroxy-8-[[4-[[2-hydroxyethyl]amino]-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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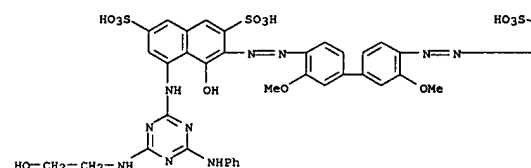
PAGE 2-A

SO3H

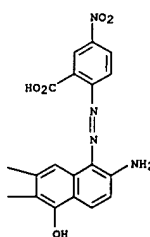
● 4 Na

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A

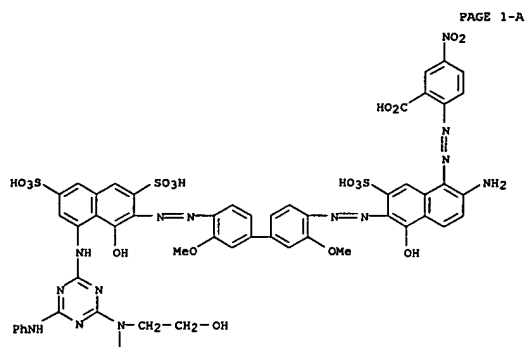


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RN 82382-67-0 CAPLUS
 CN Benzoic acid, 2-[[[2-amino-6-[[4'-[[8-[[4-bis(2-hydroxyethyl)amino]-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

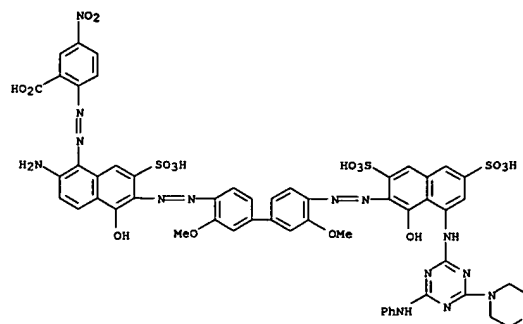
L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



PAGE 2-A

RN 82382-68-1 CAPLUS
 CN Benzoic acid, 2-[[2-amino-5-hydroxy-6-[[4'-[[1-hydroxy-8-[[4-(4-morpholinyl)-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

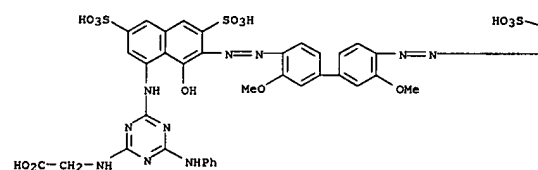
L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



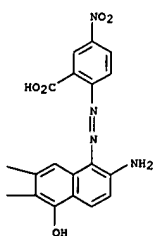
RN 82382-69-2 CAPLUS
 CN Benzoic acid, 2-[[2-amino-6-[[4'-[[8-[[4-(carboxymethyl)amino]-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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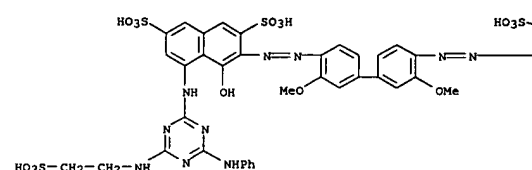
PAGE 1-B



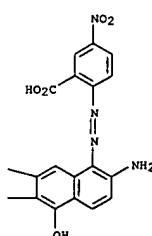
RN 82382-70-5 CAPLUS
 CN Benzoic acid, 2-[[2-amino-5-hydroxy-6-[[4'-[[1-hydroxy-8-[[4-(phenylamino)-6-[[2-sulfoethyl]amino]-1,3,5-triazin-2-yl]amino]-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



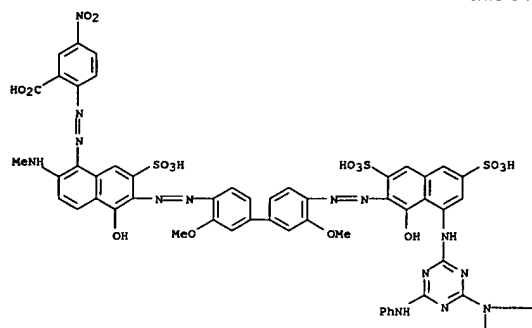
PAGE 1-B



RN 82382-71-6 CAPLUS
 CN Benzoic acid, 2-[[6-[[4'-[[8-[[4-(carboxymethyl)methylamino]-6-(phenylamino)-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-2-(methylamino)-7-sulfo-1-naphthalenyl]azo]-5-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

—CH₂—CO₂H

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1959:26016 CAPLUS
 DN 53:26016
 OREF 53:4750h-1,4751a-g
 TI Metalizable azo dyes
 IN Durig, Rudolf
 PA J. R. Geigy Akt.-Ges.
 DT Patent
 LA Unavailable
 FAN.CMT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2856396		19581014	US	
DE	1100845			DE	

AB Azo dyes are produced by coupling hydroxybenzoquinolines with diazotized amines of the structure AN:NBH₂, in which A is an aromatic radical of the iso or heterocyclic series and may also contain an arylazo group as a substituent, and B is a radical of mono and dinuclear, aromatic-isocyclic, possibly substituted, hydrocarbons and in which the azo and amino groups are in 1,4- or 1,4'-position to each other and in which at least the NH₂ group is in ortho position to a metalizable group or substituent which can be converted to one. The phenols are 2-hydroxy-4-methyl(hydroxysulfo)benzoquinolines, the benzo groups being in 5,6- or 7,8-position, and the coupling taking place in ortho position to the isocyclically bound OH group. These dyes are dark powders, soluble in alkali and whose salts are olive, green, and blue to gray. The materials are suitable for dyeing cellulose, particularly cotton, the dyes then being fixed with agents giving off Cu. The dyeings are fast to light and washing. Some of the water-soluble complexes may be used as such. Some of the dyes are fast to anti-creasing treatments. Thus, 41.7 parts of the coupled product of diazotized 5-amino-2-hydroxybenzene-1-carboxylic acid (I) and 1-amino-2-methoxy-naphthalene-6-sulfonic acid (II) is diazotized at 15° in the reverse manner and coupled at 0-5° with 2-hydroxy-4-methyl-5,6-(3'-hydroxybenzo)quinoline-5'-sulfonic acid (III) 32.3, the dye being precipitated with NaCl, filtered off, and washed. The diazo dye is useful for dyeing cellulose fibers in wet- and light-fast blue-gray colors. The fastness is improved by aftercoupping. Diazotized 4'-amino-4-(6-sulfonaphtho-1,2,4,5-triazol-2-yl)stilbene-2,2'-disulfonic acid is coupled in HOAc with II. The product is diazotized in the reverse manner and coupled with 2-hydroxy-4-methyl-5,6-(4'-hydroxybenzo)quinoline-6'-sulfonic acid (IV). The product is converted to the Cu complex and dyes cotton and cellulose in green shades fast to light. Both shade and light-fastness are only slightly influenced by anti-creasing processes. Tetrazotized o-dianisidine (V) is coupled with 1-hydroxynaphthalene-3,8-disulfonic acid. The product is diazotized and coupled with IV giving a precipitate which is complexed with Cu giving a dark powder (VI). This is soluble in water with a blue color, and dyes cotton, linen, and regenerated cellulose in lightfast shades which are barely influenced by anti-crease treatment. The dye produced from coupling tetrazotized benzidine, salicylic acid (VII), and II is diazotized and

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A

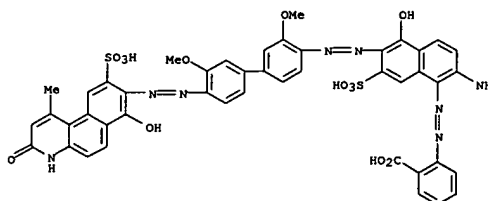
Me

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

coupled with III. The triazo dye renders cotton and regenerated cellulose blue-green shades from an aq. bath. Aftercoupping produces dyeings of excellent wash- and light fastness. The compd. from diazotized I and 1-aminonaphthalene-6-sulfonic acid is diazotized and coupled with 1-amino-2,5-dimethoxybenzene. The product is further diazotized and coupled with III. This material dyes cotton and regenerated cellulose in blue-gray shades whose light- and wash-fastness is increased by aftercoupping. The dye from diazotized 5-amino-3-sulfo-2-hydroxybenzene-1-carboxylic acid and 1-aminonaphthalene-7-sulfonic acid is diazotized and coupled with II. This is further diazotized and coupled with III to give a dye which renders cotton blue-green shades which are fast to light and washing when aftercoupped. Tetrazotized V is partially coupled with the compd. formed by coupling diazotized 2-aminobenzene-1-carboxylic acid and 2-amino-5-naphthol-7-sulfonic acid. The diazo disazo compd. is coupled with III to produce a dye which renders cotton dark navy-blue shades, which when aftercoupped are fast to light. VI 2 in a bath contg. water 3000 and Na₂CO₃ 1 is used to dye 100 parts of cotton at 40-50°. Within 30 min., the bath is raised to 90-5°, Na₂SO₄ 30 is added, and the dyeing continued for 45 min. The goods are then rinsed.

IT 106168-13-2, Benzoic acid, o-[2-amino-6-(4'-(3,7-dihydroxy-1-methyl-9-sulfo-1-naphthylazo)-3,3'-dimethoxy-4-biphenylazo)-5-hydroxy-7-sulfo-1-naphthylazo]- (6CI) (CA INDEX NAME)

RN 106168-13-2 CAPLUS
 CN Benzoic acid, o-[2-amino-6-(4'-(3,7-dihydroxy-1-methyl-9-sulfo-1-naphthylazo)-3,3'-dimethoxy-4-biphenylazo)-5-hydroxy-7-sulfo-1-naphthylazo]- (6CI) (CA INDEX NAME)



L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1958:119498 CAPLUS

DN 52:119498

OREF 52:21132d-i

TI Copperable polyazo dyes

IN Byland, Hans-Rudolf

PA Saul & Co.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2835662		19580520	US	
DE 1064659			DE	

GI For diagram(s), see printed CA Issue.

AB Copperable dyes of the structure I, in which R is H, an alkyl,

cycloalkyl,

aralkyl, or aryl group, Z is a OH or COOH group, E is an enolizable keto group, and in which ring A may be further substituted, are prepared from tetrazotized compds. of the 4,4'-diamino-3,3'-dicarboxybiphenyl (II) family, 1 mole of M, and 1 mole of a compound containing a group

C:C(OH). The

coupling can take place in any desired order in alkaline media. These

dyes

render cotton and regenerated cellulose violet-red shades which are displaced to gray or deep black by after coppering. The materials are fast to light, washing, perspiration, and are distinguished by very good discharge-ability. The dyes also reserve acetate silk. Thus, II 27.2,

is

tetrazotized and treated with the amino azo compound (III) 51.4

(obtained by

coupling diazotized 2-amino-1-phenol-4-sulfonamide with 2-phenylamino-5-naphthol-7-sulfonic acid (IIIA), Na₂CO₃ 10, and water 900 parts. Then concentrated aqueous Na₂CO₃ 30 parts is added, thus forming

the diazo

disazo compound. The mixture is then treated with a solution of acetoacetamidobenzene (IV) 17.7 in water 600 parts, stirred, cooled, and the trisazo compound (V) salted out with NaCl, filtered and dried. V is

a

dark powder, soluble in water giving a violet-red solution which dyes

cotton and

regenerated cellulose black by the 1- or 2-bath coppering process.

Similarly, are prepared dyes from (components given; color on cellulose black): II, 2-acetoacetamido-6-naphthalenesulfonic acid, compound from diazotized 2,4-H₂N(O₂N)C₆H₃OH and IIIA; and II, III, IV, and 1-phenyl-3-methyl-2-pyrazolin-5-one.

IT 103443-19-2, 3,3'-Biphenyldicarboxylic acid, 4-[6-anilino-1-hydroxy-5-(2-hydroxy-5-sulfamoylphenylazo)-3-sulfo-2-naphthylazo]-4'-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylazo)-

(dyestuff mixture containing)

RN 103443-19-2 CAPLUS

CN 3,3'-Biphenyldicarboxylic acid, 4-[6-anilino-1-hydroxy-5-(2-hydroxy-5-sulfamoylphenylazo)-3-sulfo-2-naphthylazo]-4'-(3-methyl-5-oxo-1-phenyl-2-pyrazolin-4-ylazo)- (6CI) (CA INDEX NAME)

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1955:67243 CAPLUS

DN 49:67243

OREF 49:12849a-c

TI Metalizable polyazo dyes

PA J. R. Geigy A.-G.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CH 293870		19540104	CH	

AB Use of the monoazo dye, obtained by acid coupling of diazotized 5,2-H₂N(HO)C₆H₃CO₂H with 2,5,7-H₂N(HO)C₁₀H₅SO₃H, gave II where Ar = 1-hydroxy-3-sulfo-6-amino-5-(3-carboxy-4-hydroxyphenylazo)-2-naphthyl and X = H, dark-brown powder, dirty red-brown in H₂O, and reddish brown in concentrated H₂SO₄; it dyed cellulose fibers brown shades. Swiss 293,867 describes the preparation of a dye by the same method from I 28.7, 2,5,7-[4,3-HO(HO₂C)C₆H₃NH] (HO)C₁₀H₅SO₃H 37.5, and o-MeOC₆H₄COCH₂Ac 20.7 parts; the dye is a black-brown powder, violet-red in H₂O, wine-red in concentrated H₂SO₄; it dyed cellulose fibers aftercoppered brown

shades of

very good fastness. Swiss 293,869 describes the preparation by the same

method

of a dye from I 28.7, p-ACNH₂C₆H₄NHCOCH₂Ac 23.4, and 2,6-HOC₁₀H₆SO₃H 22.4 parts. The dye is a brown-black powder, brown in H₂O, olive-brown in concentrated H₂SO₄; it dyed natural and regenerated cellulose fibers aftercoppered brown shades of very good fastness properties.

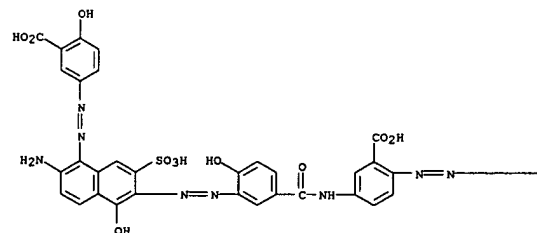
IT 860507-18-2, Salicylic acid, 5-[2-amino-6-[5-[4-[1-(p-aminophenyl)-3-methyl-5-oxo-2-pyrazolin-4-ylazo]-3-carboxy-phenylcarbonyl]-2-hydroxy-phenylazo]-5-hydroxy-7-sulfo-1-naphthylazo]-

(preparation of)

RN 860507-18-2 CAPLUS

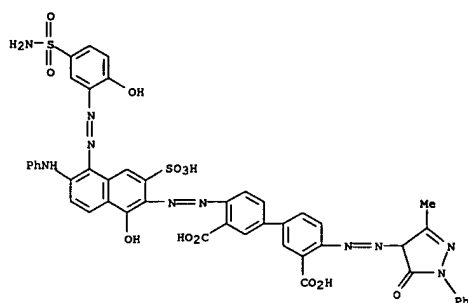
CN Salicylic acid, 5-[2-amino-6-[5-[4-[1-(p-aminophenyl)-3-methyl-5-oxo-2-pyrazolin-4-ylazo]-3-carboxy-phenylcarbonyl]-2-hydroxy-phenylazo]-5-hydroxy-7-sulfo-1-naphthylazo]- (5CI) (CA INDEX NAME)

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L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

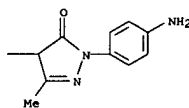
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L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

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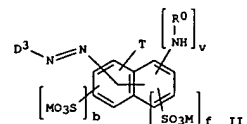
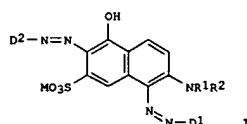
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L6	11	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L5 AND REACTIVE
L7	11	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L6 AND AZO

=> d 1-11 bib abs

L7 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:140365 CAPLUS
 DN 142:221171
 TI Dye mixtures of fiber-reactive azo dyes, their preparation and their use
 IN Meier, Stefan; Russ, Werner; Eichhorn, Joachim
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO U.S. Pat. Appl. Publ., 58 pp.
 CODEN: USXXCO

DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005034253	A1	20050217	US 2004-899163	20040726
	DE 10337636	A1	20050317	DE 2003-10337636	20030816
	EP 1508596	A1	20050223	EP 2004-18501	20040804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,				
HR	CA 2477337	AA	20050216	CA 2004-2477337	20040812
	BR 2004003225	A	20050524	BR 2004-3225	20040812
	ZA 2004006382	A	20050617	ZA 2004-6382	20040812
	JP 2005060708	A2	20050310	JP 2004-236771	20040816
PRAI	DE 2003-10337636	A	20030816		
OS	MARPAT 142:221171				
GI					



AB Reactive dye mixts. comprise one or more dyes of general formula I and one or more dyes of the general formula II (where in I and II: D1, D2, D3 = optionally substituted Ph, naphthyl group; R0 = H, optionally substituted pyrazinyl group (A) with 2 N atoms in a 1 to 3 position

L7 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:140364 CAPLUS
 DN 142:221089
 TI Dye mixtures of fiber-reactive azo dyes, their preparation and their use
 IN Meier, Stefan; Russ, Werner; Eichhorn, Joachim
 PA Dystar Textilfarben G.m.b.H. & Co., Germany
 SO U.S. Pat. Appl. Publ., 50 pp.
 CODEN: USXXCO

DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005034252	A1	20050217	US 2004-898845	20040726
	DE 10337637	A1	20050317	DE 2003-10337637	20030816
	EP 1508598	A1	20050223	EP 2004-18502	20040804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,				
HR	CA 2477407	AA	20050216	CA 2004-2477407	20040812
	ZA 2004006381	A	20050613	ZA 2004-6381	20040812
	BR 2004003270	A	20050524	BR 2004-3270	20040813
	JP 2005060707	A2	20050310	JP 2004-236748	20040816
PRAI	DE 2003-10337637	A	20030816		
OS	MARPAT 142:221089				
GI					

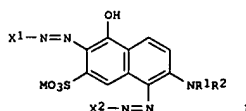
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Disazo dyes based on naphthalene derivs. having a OH group in 1 position, azo groups in the 2 and 3 positions, a sulfo group in the 3 position, and an amino group in the 6 position are mixed with (dis) azo dyes having sulfo groups or pyridinone groups and, optionally, s101 azo dyes based on naphthalene derivs. having a OH group in the 1 position, an amino group in the 6 position, an azo group in the 5 position, a sulfo group in the 3 position and, optionally, a sulfo group in the 2 position to give compns. for dyeing OH- or amide-containing fibers with good wet- and lightfastness and low staining of polyamide fibers when used for cotton-polyamide blend textiles. A typical mixture for printing of cotton fabrics contained 50 parts electrolyte powder containing 704 disazo dye I and 50 parts electrolyte powder containing 751 disazo dye II.

L7 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 AN 2003:855992 CAPLUS
 DN 139:351757
 TI Reactive disazo dyes, their production and their use
 IN Eichhorn, Joachim
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO PCT Int. Appl., 48 pp.
 CODEN: PIXXD2

DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003089521	A1	20031030	WO 2003-EP3889	20030415
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10217477	A1	20031106	DE 2002-10217477	20020419
	CA 2484430	AA	20031030	CA 2003-2484430	20030415
	AU 2003232470	A1	20031103	AU 2003-232470	20030415
	EP 1499681	A1	20050126	EP 2003-746826	20030415
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003009366	A	20050222	BR 2003-9366	20030415
	US 2005150063	A1	20050714	US 2003-511534	20030415
	JP 2005523366	T2	20050804	JP 2003-586236	20030415
PRAI	DE 2002-10217477	A	20020419		
OS	WO 2003-EP3889	W	20030415		
GI	MARPAT 139:351757				



AB The invention relates to azo dyes (I; M = H, alkali metal, 1/2 alkaline earth metal; R, R1 = H, Cl-4-alkyl, sulfomethyl; X1, X2 = optionally substituted aryl), their production, and their use for dyeing or printing fibrous materials containing hydroxy and/or carbonamide groups. I confer scarlet to reddish brown shades which show good color strength and fastness characteristics. In an example, 2,4,6-trifluoropyrimidine was condensed (1:1) with 2,4-diaminobenzenesulfonic acid to provide a diazo component which was coupled with 4-hydroxy-7-(sulfomethylamino)-2-naphthalenesulfonic acid to give a reddish orange monoazo dye. This dye was coupled with diazotized 4-(2-sulfatoethylsulfonyl)aniline to provide

L7 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 disazo reactive dye (λmax 496 nm), scarlet red on cotton.
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:777903 CAPLUS
 DN 139:278000
 TI Mixtures of reactive azo dyes, their production and their use
 IN Richhorn, Joachim
 PA Dystar Textilfarben GmbH & Co. Deutschland KG, Germany
 SO PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080741	A1	20031002	WO 2003-EP2793	20030318
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10212772	A1	20031002	DE 2002-10212772	20020322
DE 10217479	A1	20040219	DE 2002-10217479	20020419
CA 2477136	AA	20031002	CA 2003-2477136	20030318
AU 2003226652	A1	20031008	AU 2003-226652	20030318
EP 1490442	A1	20041229	EP 2003-744809	20030318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003008754	A	20050111	BR 2003-8754	20030318
JP 2005520910	T2	20050714	JP 2003-578479	20030318
US 2005223508	A1	20051013	US 2004-508077	20041105
PRAI DE 2002-10212772	A	20020322		
DE 2002-10217479	A	20020419		
WO 2003-EP2793	W	20030318		

OS MARPAT 139:278000
 AB The invention relates to mixts. containing one or more 1-amino-8-hydroxynaphthalenedisulfonic acid-based disazo dyes, 1 or more 1-hydroxy-7-aminonaphthalenesulfonic acid monoazo dyes, and optionally other azo dyes. The reactive dye mixts., which can be prepared chemical and/or by phys. mixing, provide fast black shades on substrates such as cotton. In an example, 4-(2-sulfatoethylsulfonfyl)aniline was diazotized and coupled with a mixture of 4-amino-5-hydroxynaphthalene-2,7-disulfonic acid and 6-amino-4-hydroxynaphthalene-2-sulfonic acid and the product mixture was coupled with diazotized 4-amino-N-[3-(2-sulfatoethylsulfonfyl)phenyl]benzamide to provide a black mixture of reactive azo dyes.
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:777902 CAPLUS
 DN 139:293419
 TI Mixtures of reactive azo dyes, their production and their use
 IN Richhorn, Joachim; Russ, Werner; Meier, Stefan; Mrotzeck, Uwe
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO PCT Int. Appl., 220 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080739	A1	20031002	WO 2003-EP2836	20030318
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10212769	A1	20031002	DE 2002-10212769	20020322
DE 10212770	A1	20031002	DE 2002-10212770	20020322
DE 10217476	A1	20031106	DE 2002-10217476	20020419
DE 10217478	A1	20031106	DE 2002-10217478	20020419
DE 10309406	A1	20040916	DE 2003-10309406	20030305
CA 2477718	AA	20031002	CA 2003-2477718	20030318
AU 2003222770	A1	20031008	AU 2003-222770	20030318
EP 1490441	A1	20041229	EP 2003-718695	20030318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003008755	A	20050111	BR 2003-8755	20030318
JP 2005520909	T2	20050714	JP 2003-578477	20030318
US 2005166339	A1	20050804	US 2003-508630	20030318
PRAI DE 2002-10212769	A	20020322		
DE 2002-10212770	A	20020322		
DE 2002-10217476	A	20020419		
DE 2002-10217478	A	20020419		
DE 2003-10309406	A	20030305		
WO 2003-EP2836	W	20030318		

OS MARPAT 139:293419
 AB The invention relates to mixts. of one or more 1-amino-8-hydroxynaphthalenedisulfonic acid-based disazo dyes, one or more 6-amino-3-sulfo-1-naphthol-based disazo dyes, and optionally 1 or more other naphthalene group-containing azo dyes. The reactive dye mixts., which can be prepared chemical or by phys. blending, provide fast black shades on cotton. In an example, 4-(2-sulfatoethylsulfonfyl)aniline was diazotized and coupled with a mixture of 1-amino-8-hydroxynaphthalene-3,6-disulfonic acid and 4-hydroxy-7-(sulfomethylamino)naphthalene-2-sulfonic acid, followed by a second coupling with 7-acetamido-4-hydroxynaphthalene-2-sulfonic acid to give a black mixture of reactive azo dyes.
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L7 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:434181 CAPLUS
 DN 139:8127
 TI Mixtures of reactive disazo dyes, their production and their use
 IN Richhorn, Joachim; Mrotzek, Uwe; Russ, Werner
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO Eur. Pat. Appl., 32 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

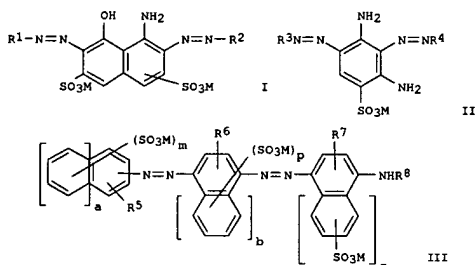
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1316587	A2	20030604	EP 2002-26569	20021128
EP 1316587	A3	20030827		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
DE 10159085	A1	20030612	DE 2001-10159085	20011201
US 2003229952	A1	20031218	US 2002-301419	20021121
CA 2413213	AA	20030601	CA 2002-2413213	20021129
CN 1422907	A	20030611	CN 2002-152686	20021129
JP 200335975	A2	20031128	JP 2002-348412	20021129
BR 2002004948	A	20040615	BR 2002-4948	20021129
FRAI DE 2001-10159085	A	20011201		
OS MARPAT 139:8127				

AB Mixts. of disazo dyes are disclosed which are based on 8-amino-1-naphthol-4-(and/or 3),6-disulfonic acid as coupling component(s) and vinyl sulfone-containing disazo components. The mixts. may be obtained by mech. mixing of the dyes or by direct production from multiple disazo and coupling components. The mixts. provide fast greenish navy blue shades on cotton fabrics. In an example, a mixture of 4-(2-sulfatoethylsulfonyl)aniline and 2,5-dimethoxy-4-(2-sulfatoethylsulfonyl)aniline was diazotized and coupled with 8-amino-1-naphthol-3,6-disulfonic acid followed with a second coupling with diazotized 2-methoxy-5-methyl-4-(2-sulfatoethylsulfonyl)aniline to give a mixture of 2 disazo reactive dyes.

L7 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:946380 CAPLUS
 DN 138:25786
 TI Mixtures of reactive disazo dyes, their production and their use
 IN Richhorn, Joachim; Russ, Werner
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO PCT Int. Appl., 71 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002098989	A1	20021212	WO 2002-EP5823	20020528
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10127062	A1	20021212	DE 2001-10127062	20010602
CA 2449126	AA	20021212	CA 2002-2449126	20020528
EP 1397438	A1	20040317	EP 2002-754591	20020528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002009565	A	20040330	BR 2002-9565	20020528
CN 1513038	A	20040714	CN 2002-810949	20020528
JP 2004532342	T2	20041021	JP 2003-502101	20020528
US 2004148714	A1	20040805	US 2003-478137	20031120
FRAI DE 2001-10127062	A	20010602		
WO 2002-EP5823	W	20020528		
OS MARPAT 138:25786				
GI				

L7 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

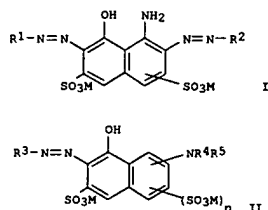


AB The invention relates to reactive dye mixts. containing at least one naphthalene-based disazo reactive dye (I; M = H, alkali metal; R1, R2 = aryl with vinyl sulfone reactive group), at least one benzene-based disazo reactive dye (II; M = H, alkali metal; R3, R4 =), or at least one other naphthalene-based disazo reactive dye (III; M = H, alkali metal; R5, R6, R7 = H, Cl-4-alkoxy, carboxy, halogen, Cl-4-alkylcarbonylamino, benzoylamino, ureido; R8 = heterocyclic fiber-reactive group; a, b, c = 0-1; m, n = 0-2; p = 0-3). The dye mixts. may be produced by chemical or phys. means to provide good dyeing strengths on substrates such as cotton. An example was given which was based on a navy blue disazo naphthalene-based vinyl sulfone reactive dye and an orange benzene-based disazo vinyl sulfone reactive dye; deep black dyeings were obtained.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:946379 CAPLUS
 DN 138:25785
 TI Black dye mixtures of reactive azo dyes, their production and their use
 IN Richhorn, Joachim; Pedemonte, Ronald
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002098988	A2	20021212	WO 2002-EP5822	20020528
WO 2002098988	A3	20030220		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2449113	AA	20021212	CA 2002-2449113	20020528
EP 1397437	A2	20040317	EP 2002-750983	20020528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002010027	A	20040413	BR 2002-10027	20020528
CN 1513037	A	20040714	CN 2002-810943	20020528
JP 2004528473	T2	20040916	JP 2003-502100	20020528
US 2003140432	A1	20030731	US 2002-157293	20020529
US 6946006	B2	20050920		
FRAI US 2001-295193P	P	20010601		
WO 2002-EP5822	W	20020528		
OS MARPAT 138:25785				
GI				



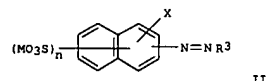
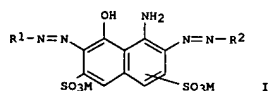
AB The invention discloses mixts. comprising at least one disazo reactive dye (I; M = H, alkali metal; R1, R2 = aryl with vinyl

L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 sulfone reactive group) and at least one monoazo
 reactive dye (II; M = H, alkali metal; R3 = org. or
 reactive group; n = 0, 1), their prodn. by phys. or chem. means,
 and their use on substrates such as cotton to provide good dyeing
 strengths. Examples were given which incorporated an orange-dyeing
 monoazo dye and a navy-dyeing disazo dye for cotton.

L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:946377 CAPLUS
 DN 138:25784
 TI Mixtures of reactive azo dyes, their production and
 their use
 IN Eichhorn, Joachim
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO PCT Int. Appl., 47 pp.
 CODEN: P1XXD2
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098986	A2	20021212	WO 2002-EP5824	20020528
WO 2002098986	A3	20030313		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10127061	A1	20021212	DE 2001-10127061	20010602
CA 2449125	AA	20021212	CA 2002-2449125	20020528
EP 1397439	A2	20040317	EP 2002-754592	20020528
EP 1397439	B1	20051116		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002009569	A	20040330	BR 2002-9569	20020528
CN 1513036	A	20040714	CN 2002-810941	20020528
JP 2004527647	T2	20040909	JP 2003-502098	20020528
AT 310052	E	20051215	AT 2002-754592	20020528
TW 583277	B	20040411	TW 2002-91111583	20020530
US 2004139567	A1	20040722	US 2003-478124	20031120
US 6962611	B2	20051108		
PRAI DE 2001-10127061	A	20010602		
WO 2002-EP5824	W	20020528		
OS MARPAT 138:25784				
GI				

L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB The invention relates to reactive dye mixts. containing at least one disazo reactive dye (I; M = H, alkali metal; R1, R2 = aryl with vinyl sulfone reactive group) and at least one monoazo reactive dye (II; R3 = aryl with vinyl sulfone reactive group; X = hydroxy, optionally substituted amino; n = 1, 2), their production by phys. or chemical means, and their use on substrates such as cotton to provide good dyeing strengths. Examples were given which incorporated a navy blue-dyeing disazo dye and an orange monoazo dye which together provided a fast black shade.

L7 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2000:755279 CAPLUS
 DN 133:322967
 TI Reactive azo dye mixtures for dyebaths with low salt
 content, their production and their use
 IN Pedemonte, Ronald; Reiher, Uwe; Schumacher, Christian; Kunz, Martin;
 Eichhorn, Joachim
 PA Dystar Textilfarben G.m.b.H. und Co. Deutschland K.-G., Germany
 SO Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

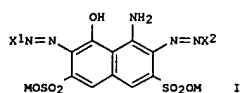
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1046679	A2	20001025	EP 2000-107862	20000412
EP 1046679	A3	20010919		
EP 1046679	B1	20030702		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19918160	A1	20001026	DE 1999-19918160	19990422
AT 244281	E	20030715	AT 2000-107862	20000412
PT 1046679	T	20030930	PT 2000-107862	20000412
ES 2200748	T3	20040316	ES 2000-107862	20000412
US 6368362	B1	20020409	US 2000-553429	20000419
TR 200001078	A2	20001121	TR 2000-200001078	20000420
TW 538100	B	20030621	TW 2000-89107484	20000420
JP 2000345066	A2	20001212	JP 2000-121448	20000421
PRAI DE 1999-19918160	A	19990422		
OS MARPAT 133:322967				
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Mixts. of at least 2 of the 3 reactive azo dyes represented by I (R1 = Me, amino; R2 = H, Cl; X1 = diazo component based on benzene or naphthalene with 21 sulfo group), II (M = H, alkali metal; X2 = diazo component based on vinyl sulfone-containing or -generating benzene derivative; Y = F, Cl), and III (M = H, alkali metal; X3, X4 = diazo component based on vinyl sulfone-containing or -generating benzene derivative) are effective for dyeing of cotton in baths needing only 1-10 g salt electrolyte. In an example, a mixture of I (R1 = Me; R2 = Cl; X1 = 6,8-disulfo-2-naphthyl) 0.66, II (M = H; X2 = 4-(2-sulfatoethylsulfonfyl)phenyl; Y = F) 0.66, and III (M = H; X3 = 4-(2-sulfatoethylsulfonfyl)phenyl with p-attachment; X4 = 4-(2-sulfatoethylsulfonfyl)phenyl) 0.66 part in 1 L water containing 8 parts Na2CO3 dyed cotton in fast brown shades.

L7 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2000:755278 CAPLUS
 DN 133:322999
 TI Reactive water-soluble disazo dyes with arylcarboxamide-
 containing diazo components, their production and their use
 IN Richborn, Joachim
 PA Dystar Textilfarben G.m.b.H. und Co. Deutschland K.-G., Germany
 SO Eur. Pat. Appl., 24 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1046677	A1	20001025	EP 2000-107861	20000412
EP 1046677	B1	20030723		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19918159	A1	20001026	DE 1999-19918159	19990422
AT 245680	E	20030815	AT 2000-107861	20000412
PT 1046677	T	20031031	PT 2000-107861	20000412
ES 2203368	T3	20040416	ES 2000-107861	20000412
US 6281340	B1	20010828	US 2000-551999	20000419
TR 200001077	A2	20001121	TR 2000-200001077	20000420
TW 483925	B	20020421	TW 2000-89107477	20000420
JP 2000345065	A2	20001212	JP 2000-121449	20000421
PRAI DE 1999-19918159	A	19990422		
OS MARPAT 133:322999				
GI				



AB Disazo dyes (I: M = H, alkali metal; X1, X2 = diazo component containing vinyl sulfone or vinyl sulfone-forming group; one or both of X1 and X2 may contain a carboxamide group) are obtained by coupling of X1NH2 and X2NH2 with H acid or K acid. I are suitable as reactive navy blue dyes for cotton. Thus,
 4-amino-N-[4-(2-hydroxyethylsulfonyl)phenyl]benzamide was sulfated and diazotized and then coupled with 4-(2-sulfatoethylsulfonyl)aniline-H acid to give a navy blue disazo dye, fast on cotton.
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

109.37

276.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-18.75

-18.75

STN INTERNATIONAL LOGOFF AT 12:11:48 ON 23 FEB 2006